

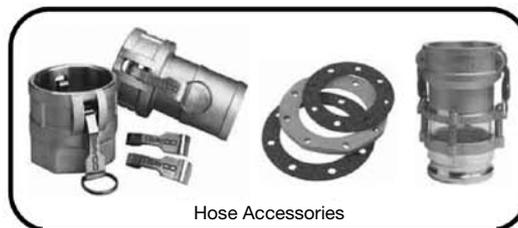
Tanker, Overfill Prevention & Storage Tank Products

Dry Bulk

Dixon Dry Bulk products are designed for use with bulk trailers and truck blowers for the pneumatic transfer of dry bulk commodities such as powders, grains and plastic pellets. Other industrial applications are possible when pneumatic control of air or dry products is required.



Air and Vacuum Relief Valves



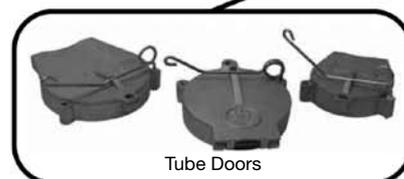
Hose Accessories



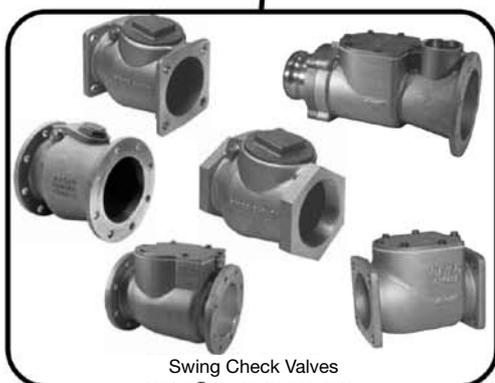
Pneuclean™
Filter Systems



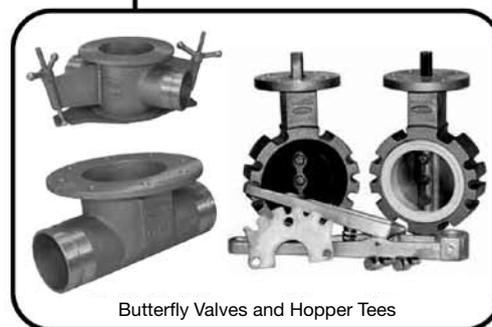
Fluidisers



Tube Doors



Swing Check Valves



Butterfly Valves and Hopper Tees



Tanker, Overfill Prevention & Storage Tank Products

Air Relief Valves

- Designed to relieve air pressure at a specific pressure setting (customer to advise when ordering - typical setting 15-25 psi)
- Air Relief Flow Rates:
 - A2180 up to 500 SCFM
 - A2182 up to 1400 SCFM
 - A3180 up to 1300 SCFM
- A choice of setting tolerances are provided. In addition to conventional field duty tolerances of +3/-0 psi, offers OEM tolerances of +1/-0 psi. The tighter tolerance air reliefs are designated with the prefix A, (A2180, A3180, A2182). Both conventional field duty and OEM tolerance products are of identical construction, however OEM models are identified with an A imprinted before the setting stamp

NOTE: Adjustable models, (A2180ADJ, A3108ADJ) are only available with OEM settings

Relief Valve Flow Rates vary depending on the preset relief pressure, for specific relief rates contact Dixon.

Features:

- High Grade Diaphragms – White, food grade, and high temperature elastomers for all models
- Suitable for high temperature (to 200°C) and food grade service
- Tamper proof stainless steel cup seals
- Available in a female thread version
- Model 2182 has Silicon rubber poppet which reduces tendency to cake – cement, lime etc

Safety Note: Air/vacuum relief valves must be regularly inspected, cleaned and maintained. Product particles can prevent the valve from fully reseating which can lead to early opening/leakage from the valve or can prevent it from opening at all. For ease of removal and installation, to allow for inspections, cleaning and maintenance all 2180 and 2182 series air relief valves are available with either male cam and groove or grooved connections.

Designed for trailer service



PART NO.	DESCRIPTION
2180/xx	2" Female NPT
A2180/xx	2" Female NPT
3180/xx	3" Female NPT
A3180/xx	3" Female NPT



PART NO.	DESCRIPTION
2180V/15	2" Grooved End

Set at 15 psi



Shown with optional Safety Lanyard (CAL25) attached.

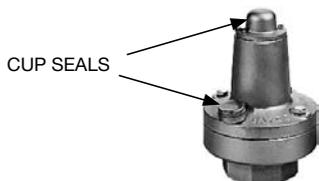


PART NO.	DESCRIPTION
2180B/15	2" Adapter

Set at 15 psi



Shown with optional Safety Lanyard (CAL25) attached.



PART NO.	DESCRIPTION
A2180/xxADJ	2" Female NPT
A3180/xxADJ	2" Female NPT

Adjustable models allow an adjustment of + or - 3 psi from specified setting. Designed for trailer service. /xx refers to the choice of pressure settings provided. Please request the required settings when ordering.

Tanker, Overfill Prevention & Storage Tank Products

Designed for high capacity blower or trailer service



PART NO.	DESCRIPTION
2182/xx	2" Male NPT
A2182/xx	2" Male NPT
2182B/xx	2" Adapter
2182V/xx	2" Grooved End



PART NO.	DESCRIPTION
2182F/xx	2" Female NPT

/xx refers to the choice of pressure settings provided. Please request the required settings when ordering.

Pneuclean™ Pneumatic Filtration System

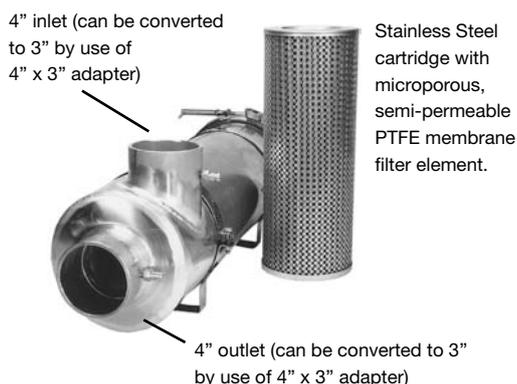
The Pneuclean™ unit is designed to remove microscopic particles generated by blowers during pneumatic conveying of contaminant-sensitive dry bulk products. Contaminants such as Iron and Hydrocarbons are produced by blowers and can adversely affect dry products such as plastic pellets and food materials.

These filter units are typically used on dry bulk tanker trucks and placed after the blower and before the bulk storage tanker. This in-line pneumatic system is also suitable for industrial applications or wherever microscopic filtration (up to 4 microns) of impurities is required.

Standard units employ 4" inlets and outlets. However, 3" plumbing can be used with available weld-on 4" x 3" female NPT adapters.

Special cartridge-style filter elements have a typical life expectancy of approximately 12 months or 2000 hrs. of service.

4" AW and 4" DW Aluminium fittings may be butt-welded to filter inlet to allow quick coupler connection of hose.



PART NO.	DESCRIPTION
PC5000	4" Pneuclean complete housing with filter
PART NO.	REPLACEMENT PARTS DESCRIPTION
PC5001	Filter
PC5003	Mounting Bracket
PC5004	V-clamp
PC5005	Lid O-ring
PC5006	Bottom Gasket
PC5007	Lid w/Adjusting nut

In-Line High Pressure Air Filtration for 4" Air Lines

- FDA Medium with 99.99% maximum efficiency at 4 microns.
- Maximum air flow 1000 CFM's
- Back pressure only .05 psi
- Temperature range -45° to 230°C
- Average 12 month filter cartridge lifespan
- Quick release V-clamp for easy inspection
- Overall weight 26 lbs (11.8kg)



Tanker, Overfill Prevention & Storage Tank Products

Swing Check Valves

- High flow body design
- Drop in flapper assembly
- High temperature white food grade seal
- Easy maintenance inspection lid
- Captive springs and shaft to prevent contamination
- Stainless Steel hardware



3030SQ



3090MA

SWING CHECK VALVES	
PART NO.	DESCRIPTION
3030SQ	3" Square Flange Swing Check Valve
3090M	3" Swing Check Manifold
3090MA	3" Swing Check Manifold with 3" Adapter
3090MB	3" Swing Check Manifold with 4" Adapter
3030SK	Security Kit For 3" Swing Check Manifold
3090MS	3" Swing Check Manifold with Security Kit installed
3090MAS	3" Swing Check Manifold with 3" Adapter and Security Kit installed
3090MBS	3" Swing Check Manifold with 4" Adapter and Security Kit installed

3" and 4" Swing Check Valves

- Cast Aluminium bodies with Bronze inspection caps
- Safety flapper assembly - all flapper assemblies are drilled and pinned and will not come apart
- Choice of seals: metal-to-metal, Buna or Silicon Rubber seals
- Choice of models with or without spring loaded flapper
- Full flow design - flappers swing out of flow path for maximum flow and low resistance
- Designs with large caps allow flapper repair/rebuild on unit

Check valves allow one way directional flow only. They are used as a protective safety device to prevent flow reversal should back pressure result. These valves are designed specifically for service with pneumatic equipment which transfers dry bulk commodities.



3" ROUND FLANGED (TTMA)	
PART NO.	DESCRIPTION
3000N	Metal-to-metal seal
3000SP	Metal-to-metal seal & spring loaded flapper
3000B	Buna Rubber seal
3000S	Silicon Rubber seal
3000BSP	Buna seal & spring loaded flapper
3000SSP	Silicon Rubber seal & spring loaded flapper

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3" SQUARE FLANGED (TTMA)	
PART NO.	DESCRIPTION
3001SQN	Metal-to-metal seal
3001SQSP	Metal-to-metal seal & spring loaded flapper
3001SQB	Buna Rubber seal
3001SQS	Silicon Rubber seal
3001SQBSP	Buna seal & spring loaded flapper
3001SQSSP	Silicon Rubber seal & spring loaded flapper



3" THREADED ENDS (NPT)	
PART NO.	DESCRIPTION
3000TE	Metal-to-metal seal
3000TESP	Metal-to-metal seal & spring loaded flapper
3000TEB	Buna Rubber seal
3000TES	Silicon Rubber seal
3000TEBSP	Buna seal & spring loaded flapper
3000TESSP	Silicon Rubber seal & spring loaded flapper

Gaskets should be purchased separately.



4" ROUND FLANGED (TTMA)	
PART NO.	DESCRIPTION
4040RD	Metal-to-metal seal & spring loaded flapper

4" THREADED ENDS (NPT)	
PART NO.	DESCRIPTION
4040TE	Silicone seal, spring loaded flapper



2" Swing Check Valves

- Aluminium cast, square flanged and threaded end models
- Self-aligning, moulded "white food grade EPDM" rubber flapper assembly (176°C / 350°F) with externally mounted springs, to prevent ingestion of parts
- Easy open (no tools required) inspection cap
- Full flow performance

2" SWING CHECKS	
PART NO.	DESCRIPTION
3020SQ	2" Square Flange
3020TE	2" Female NPT



Tanker, Overfill Prevention & Storage Tank Products

Horizontal Swing Check Valves

- Swing Check Valves are designed to prevent backflow in plumbing and liquid piping systems, while offering full flow performance with a minimum of turbulence or pressure loss
- A positive seating disc allows flow only in one direction and a screw-in cap provides easy access for periodic cleaning
- For horizontal or vertical use
- Rated to 200 psi WOG
- Brass body & disc
- Temperature range (-4°C to 66°C / -20°F to 150°F)



FEMALE NPT x FEMALE NPT	
PART NO.	DESCRIPTION
SWCV50	1/2"
SWCV75	3/4"
SWCV100	1"
SWCV125	1 1/4"
SWCV150	1 1/2"
SWCV200	2"
SWCV300	3"

In-line Sight Glass

- Designed for dry bulk transfer applications
- Available in combination of 3" and 4" coupler or adapter ends
- Includes:
 - Aluminium bodies
 - Buna seals
 - Acrylic sight glasses
 - Stainless steel hardware
 - Bronze cam arms (where applicable)

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PART NO.	DESCRIPTION
3544CA	4" Coupler x 4" Adapter
3533CA	3" Coupler x 3" Adapter
3543CA	4" Coupler x 3" Adapter
3534CA	3" Coupler x 4" Adapter
3533AA	3" Adapter x 3" Adapter
3544AA	4" Adapter x 4" Adapter
3534AA	3" Adapter x 4" Adapter
3544CC	4" Coupler x 4" Coupler
3533CC	3" Coupler x 3" Coupler
3543CC	4" Coupler x 3" Coupler

Tanker, Overfill Prevention & Storage Tank Products

Butterfly Valves - 400 Series

Housing:	Aluminium
Discs:	Type 316 Stainless or Nodular Iron
Stem Packing:	Buna-N
Stem Bushings:	Thermal plastic polymer, top and bottom
Resilient Seat:	Nitrile
Handle:	High strength 713 Alloy Aluminium with retrogressive re-aging process - stronger than industry standard Cast Iron handles. Stainless Steel spring and locking lever pin
Throttling Plate:	Five position, high strength Aluminium Alloys

Features:

- Aluminium Body
- Nodular Iron Disc
- 17-4 SS Stem
- Nitrile, FDA approved Black Seat



NODULAR IRON					
COMPLETE VALVE WITH NODULAR IRON DISC		NODULAR IRON REPLACEMENT DISCS		BLACK REPLACEMENT NITRILE SEATS	
PART NO.	SIZE	PART NO.	SIZE	PART NO.	SIZE
2-400-1500	2"	2-400-422237F	2"	2-400-422500	2"
3-400-1500	3"	3-400-422237F	3"	3-400-422500	3"
4-400-1500	4"	4-400-422237U	4"	4-400-422500	4"
4A-400-1500	4" TTMA	5-400-422237U	5"	4A-400-422500	4" TTMA
5-400-1500	5"	6-400-422237U	6"	5-400-422500	5"
6-400-1500	6"			6-400-422500	6"

Handles should be ordered separately.

Features:

- Aluminium Body
- 316 SS Disc
- 17-4 SS Stem
- Nitrile, FDA approved White Seat



STAINLESS STEEL					
COMPLETE VALVE WITH 316 STAINLESS STEEL DISC		316 STAINLESS STEEL REPLACEMENT DISCS		WHITE REPLACEMENT NITRILE SEATS	
PART NO.	SIZE	PART NO.	SIZE	PART NO.	SIZE
3-400-3501	3"	2-400-422209F	2"	2-400-422501	2"
4-400-3501	4"	3-400-422209F	3"	3-400-422501	3"
5-400-3501	5"	4-400-422209U	4"	4-400-422501	4"
6-400-3501	6"	5-400-422209U	5"	4A-400-422501	4" TTMA
		6-400-422209U	6"	5-400-422501	5"
				6-400-422501	6"

Handles should be ordered separately.

Tanker, Overfill Prevention & Storage Tank Products

Butterfly Valves - 390 Series

Housing:	Aluminium
Discs:	Type 316 Stainles
Body Screws:	Cadmium Plated Steel
Stem Packing:	Buna
Stem Bushings:	Thermal plastic polymer, top and bottom
Resilient Seat:	Nitrile
Handle:	High strength 713 Alloy Aluminium with retrogressive re-aging process - stronger than industry standard Cast Iron handles. Stainless Steel spring and locking lever pin
Throttling Plate:	Five position, high strength Aluminium Alloy

Features:

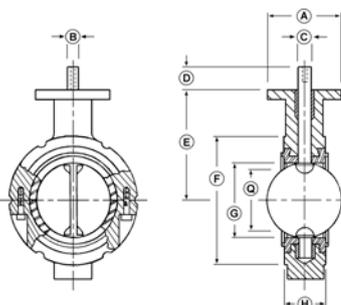
- 2 Piece Aluminium Body
- One piece 316 SS Disc and Stem
- Nitrile, FDA approved White Seat



STAINLESS STEEL					
COMPLETE VALVE WITH 316 SS DISC		316 STAINLESS STEEL REPLACEMENT DISCS		WHITE REPLACEMENT NITRILE SEATS	
PART NO.	SIZE	PART NO.	SIZE	PART NO.	SIZE
3-390-828501	3"	3-390-209F	3"	3-400-422501	3"
4-390-828U501	4"	4-390-209U	4"	4-400-422501	4"
5-390-828U501	5"	5-390-209U	5"	5-400-422501	5"
6-390-828U501	6"	6-390-209U	6"	6-390-363501	6"

Handles should be ordered separately.
For 6" 390 series valve, use special handle 400-206-65.

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DIMENSIONS & WEIGHTS										
SIZE	DIMENSIONS									WEIGHT IN LBS.
	A	B	C	D	E	F	G	H	Q	
2"	4.000	.375	.563	1.250	3.938	4.125	2.125	1.625	1.688	3
3"	4.000	.375	.563	1.250	4.875	5.375	3.125	1.750	2.875	4
4"	4.000	.438	.625	1.250	6.000	6.875	4.125	2.000	3.875	7
5"	4.000	.438	.625	1.250	6.000	7.625	5.188	2.125	5.000	9
6"	4.000	.438	.625	1.250	6.500	8.750	6.125	2.125	6.000	9

NOTE: Q dimension is the minimum allowable inside diameter of the pipe or mating flange.



Tanker, Overfill Prevention & Storage Tank Products

Butterfly Valve Accessories



ALUMINIUM HANDLE KIT

PART NO.	SIZE
206-23-5	2" and 3"
206-46-5	4" thru 6"
400-206-65*	6" - 390

BUSHING & PACKING KITS

PART NO.	SIZE
2-3-400-99-BPKIT	2" and 3"
4-6-400-99-BPKIT	4" thru 6"
6-99-400BPKIT*	6"

316 STAINLESS SCREW SETS

PART NO.	SIZE
2-3-213	2" and 3"
4-5-6-213	4" thru 6"

17-4 STAINLESS STEMS

PART NO.	SIZE
2-400-422240	2"
3-400-422240	3"
4-400-422240	4"
5-400-422240	5"
6-400-422240	6"

Includes handle plate kit and handle/lever assembly.

*Use on 6" 390 series valves

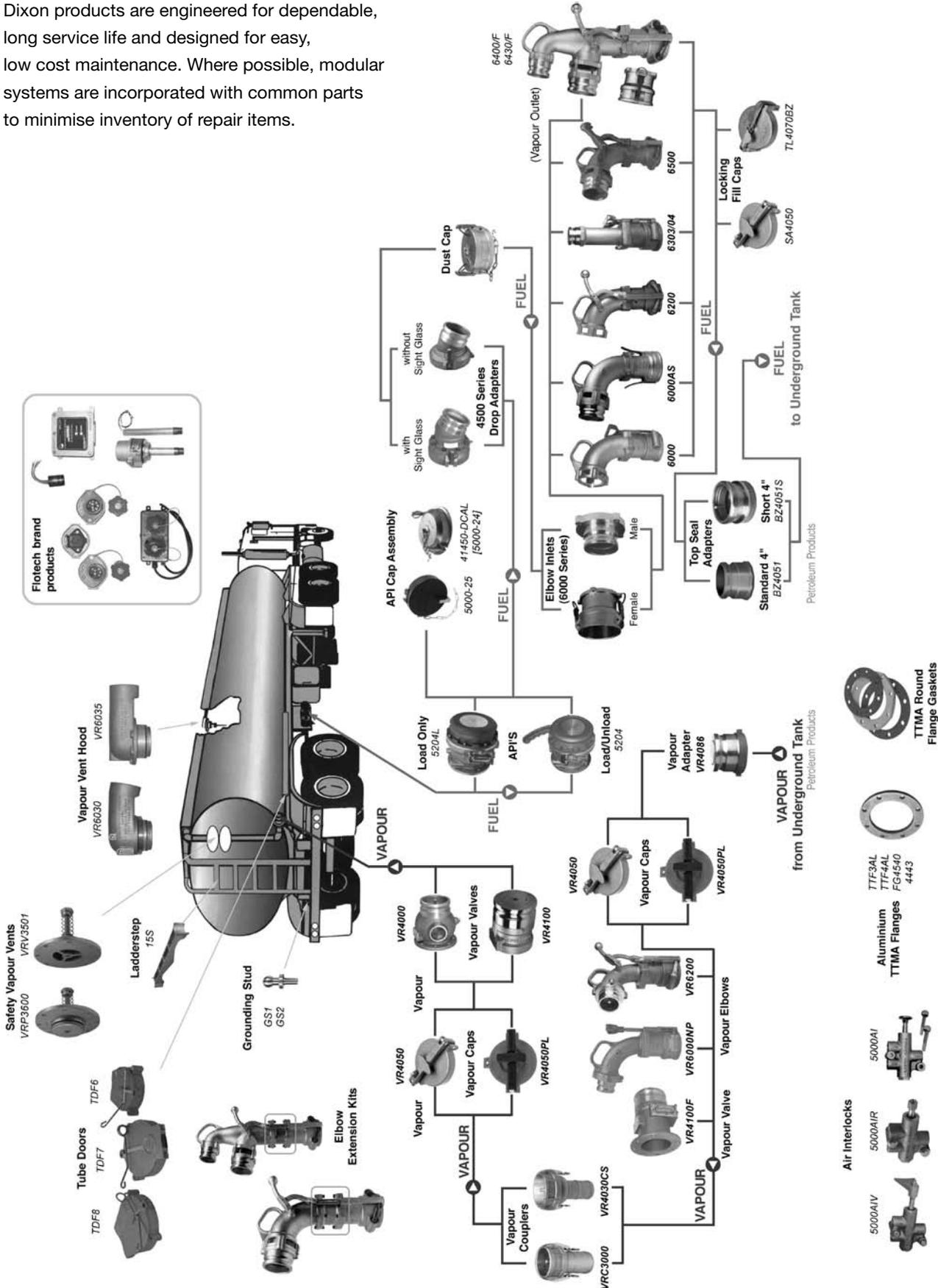
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Tanker, Overfill Prevention & Storage Tank Products

Petroleum Tanker Products

Dixon products are engineered for dependable, long service life and designed for easy, low cost maintenance. Where possible, modular systems are incorporated with common parts to minimise inventory of repair items.



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Tanker, Overfill Prevention & Storage Tank Products

4" API Valves

API Valves are used for bottom loading and unloading of petroleum tankers. Valve nose shape and opening comply with American Petroleum Institute standard (API RP-1004) enabling Dixon API valves to interchange with competitor items made to the same specification. Two styles are available; a load only model without handle and a load/unload model with a handle to allow manual opening.

- Unique flow and fluid level sight indicators are available
- Load/unload versions feature an ergonomically curved handle that opens with a short 62° stroke.
Can be ordered with a fixed or removable handle
- Chemical resistant crank seals and poppet seal (PTFE seals optional)
- Any required maintenance is simplified, can be completely rebuilt without removing the valve from the tank
- The ALH (anodised aluminium hard coat) nose ring can be rotated to provide a fresh cam service to compensate for wear



API LOAD /UNLOAD VALVE	
PART NO.	DESCRIPTION
5204NG	Fixed handle, without sight glass, ALH nose ring, Baylast seal
5204	Fixed handle, sight glass, ALH nose ring, Baylast seal
5204C	Removable handle*, sight glass, ALH nose ring, Baylast seal
5204NGC	Removable handle*, without sight glass, ALH nose ring, Baylast seal
5204SNG	Fixed handle, without sight glass, ALH nose ring, stainless spring for crude oil, Baylast seal
5204TNG	Fixed handle, without sight glass, ALH nose ring, PTFE seals
5204NGV	Fixed handle, without sight glass, Viton® seals

* Removable handle for Canadian market



API LOAD ONLY VALVE	
PART NO.	DESCRIPTION
5204L	Load only API valve with sight glass, ALH nose ring
5204LNG	Load only API valve without sight glass, ALH nose rings



Tanker, Overfill Prevention & Storage Tank Products

API Bottom Rack Loading Fitting

Dixon API coupler uses a snap on connection where the coupling action is automatic upon contact with the API adapter. The coupler is completely modular so it can be built with various face seal combinations to be compatible with different alternative fuel, performance levels and applications. Two models are available: bonded nose seal and replaceable nose seal.

Material Specifications:

- Body: hard coated anodized AL 356 T6
- Shroud: hard coated anodized AL 356 T6, SS insert
- Link, shaft, pin and crank: hardened 17-4PH stainless steel
- Cam: CF8M stainless steel
- Poppet and bearing: ZA-12
- Seal options: Baylast, Viton-B®, Viton® GFLT

Chemical Compatibility (Baylast seals):

- Gasoline
- Diesel
- Avgas
- 100% ethanol
- 100% methanol
- B2 to B20 biodiesel blends

Technical Specifications:

- Weight: 9.1 kgs.
- Maximum working pressure: 150 PSI
- Peak surge pressure: 350 PSI
- Operating temperature:
 Viton® seals: -29°C (-20°F) to 204°C (+400°F)
 Baylast seals: -29°C (-20°F) to 121°C (+250°F)
- Maximum flow rate: 600 GPM
- Pressure drop: 3 to 4 PSI

Chemical Compatibility (Viton-B® seals):

- Gasoline
- Diesel
- Jet fuel
- Avgas
- 100% ethanol
- 100% methanol
- 100% biodiesel
- Any blend of the above fluids

- 4" TTMA inlet mounting flange
- 5 cam design for easy alignment and tight connection
- Ball-end handle for easy, comfortable operation
- No special tools needed for maintenance
- Shaft seals can be changed without removing coupler from loading arm
- Fully compliant with API RP1004:2003 specifications
- Fully interlocked collar can not be opened when connected and can not be disconnected when opened
- One piece bonded nose seal ensures long life and cannot be washed out
- Optional replaceable nose seal for quick replacement without removal from loading arm



bonded nose seal
model - 5300

API BOTTOM RACK LOADING FITTING		
BONDED NOSE SEAL NO.	REPLACEMENT NOSE SEAL NO.	SEAL MATERIAL
5300 5300B 5300G	5400 5400B 5400G	Baylast Viton-B® Viton GFLT

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API Dust Caps



API DUST CAPS	
PART NO.	DESCRIPTION
41450-DCAL	Aluminium API cap with flat gasket
5000-24	Aluminium API cap with O-ring gasket
5000-25	Nylon API cap with flat gasket, pad lockable arm

Tanker, Overfill Prevention & Storage Tank Products

Gravity Drop Adapters

Gravity drop adapters attach and seal directly against openable API's and allow drop hose with standard cam and groove couplers to clamp on and transfer petroleum from the API. Dixon manufactures two styles of gravity drop adapters: 1) standard one piece and, 2) a 2 piece bolt together design with sight glass. Both are Dixon quality cast construction with bronze cam arms and Buna O-Ring seals (Viton O-Rings available upon request).

- Quality cast aluminium body with inside lip to hang on API while clamping
- Inexpensive replacement of Buna O-Ring seal (Viton seal available)
- Bronze cam arms with stainless steel pins, finger rings

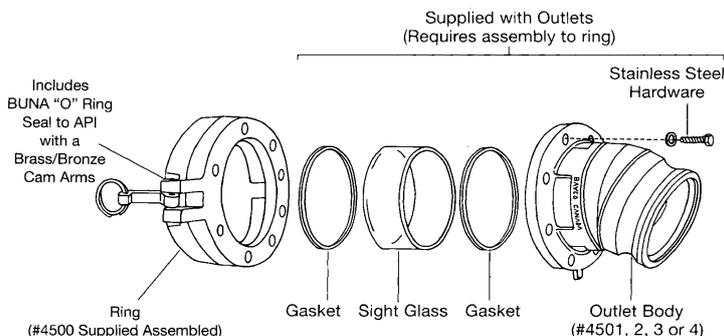


STANDARD ONE PIECE BODY	
PART NO.	DESCRIPTION
4530	3" outlet
4540	4" outlet
41450-DCAL	4" API Dust Cap (not shown)
31440-225AL	3" x 4" API Offloading 10° Angle Spout, Flat gasket (not shown)
41440-225AL	4" x 4" API Offloading 10° Angle Spout, Flat gasket (not shown)

- Consists of a 4500 ring assembly and an outlet which contains mounting bolts, sight glass and seals
- Customer assembly required (see sketch)
- Order 4500 ring and outlets separately



TWO PIECE DESIGN WITH SIGHT GLASS	
PART NO.	DESCRIPTION
4500	Ring only
4501	3" Male x 4" TTMA Flange x 22 1/2°
4502	4" Male x 4" TTMA Flange x 22 1/2°
4503	4" Male x 4" TTMA Flange Straight
4503SPECIAL	4" Male x 4" TTMA Flange Straight, no sight glass
4504	4" Female x 4" TTMA Flange x 22 1/2° Coupler
4501ASSM	3" Male Adapt. 22 1/2° x API Cplr. (4501 & 4500)
4502ASSM	4" Male Adapt. 22 1/2° x API Cplr. (4502 & 4500)
4503ASSM	4" Male Adapt. Straight x API Cplr. (4503 & 4500)
4504ASSM	4" Female Cplr. 22 1/2° x API Cplr. (4504 & 4500)



Sketch illustrates assembly of 2 piece drop adapter



Tanker, Overfill Prevention & Storage Tank Products

Vapour Valves

- Bulb design for maximum vapour flow (low resistance) for fast loading of tankers
- With angled acrylic sight glasses (2) and drain plug, allows viewing and drainage of fluids if in system
- Quality cast aluminium construction
- 4" TTMA flange
- With air interlock mount (use air interlock 5000AIV if required)



PART NO.	SIZE
VR4000	4"

- Features easy seal replacement while on tanker
- Heavy duty cast aluminium body
- 4" female NPT
- With air interlock mount (use air interlock 5000AI if required)
- Available as special order without poppet (VR4100NP)



PART NO.	SIZE
VR4100	4"

Vapour Caps

- Lockable push/pull cap for vapour valves (VR4000 & VR4100) or vapour adapter (VR4086)
- Aluminium cap and arms with bronze locking cam and Buna gasket
- Painted orange

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PART NO.	DESCRIPTION
VR4050AL VR4050ALC 400-G-BU	Aluminium cap Aluminium cap with chain Replacement gasket



PART NO.	DESCRIPTION
VR4050PL VR4050PLC 40018BN	Ultra lightweight nylon cap Ultra lightweight nylon cap with chain Replacement gasket

Tanker, Overfill Prevention & Storage Tank Products

Vapour Hose Couplers

- For use with vapour hose
- Cast aluminium body
- Buna gasket
- VR4030CS-AL has Viton poppet seal



PART NO.	DESCRIPTION
VRC3000AL	3" coupler with probe x 3" hose shank
400-CVR-AL	4" coupler with probe x 4" hose shank
4030-CVR-AL	4" coupler with probe x 3" hose shank
VR4030CS-AL	4" coupler with poppet & probe x 3" hose shank
4030-DAVR-AL	4" coupler with poppet & probe x 3" adapter
4030-DVR-AL	4" coupler with probe x 3" female NPT
400-DVR-AL	4" coupler with probe x 4" female NPT

Sequential Vapour Vents

Sequential vapour vents are used for venting tank vapours during the bottom loading and unloading of petroleum tankers. These pneumatically activated vapour vents can either be installed to open sequentially or to open independently. Vapour vents available to suit either 16" or 20" tank manholes.

- Highest flow vapour recovery vents on the market
- Baylast seals resist chemical attack from fuel additives and alcohol
- Floating piston design ensures long life and resists poppet sticking
- Can be used for both sequential and non-sequential operation
- Tested vapour tight to 36 psi, certification 49 CFR 178.345-5
- Sealed system eliminates common leak points and improves reliability
- Quick and easy to rebuild with simple hand tools



PART NO.	DESCRIPTION
VR6030SQ	For 16" manhole, mounting ring attachment
VR6035SQ	For 20" manhole, 3" TTMA flange attachment

Air Interlocks

- Mounts to API's, vapor valves and safety bars
- Choice of standard piston end or paddle end (for bulb style vapor valve)
- Includes 1/4" x 1 3/4" stainless steel mounting bolts
- Rugged solid bayloy body for dependable service and superior corrosion resistance
- Adjustable stroke to accommodate length variations



PART NO.	DESCRIPTION
5000AI	Standard 1" button plunger pneumatic interlock
5000AIV	Paddle plunger pneumatic interlock, for use with VR4000 vapor valve
5000AIR	Roller ball plunger pneumatic interlock, ideal for use on cabinet doors
5000AIS	Standard 1" button plunger pneumatic interlock with electronic switch, ideal for connecting to electronic overfill systems
5000AIST	1 1/2" button plunger pneumatic interlock
5000S	Electronic switch kit, for adding electronic switching to Bayco brand pneumatic interlock valves
5000ST	Replacement 1 1/2" large button

Repair kits and replacement parts available.



Tanker, Overfill Prevention & Storage Tank Products

Ball Nozzles for Bulk Delivery

The Bayco brand ball nozzle uses a full port ball valve for high flow rate at a given inlet pressure. The internal flow path is computer designed to provide low pressure drop across the nozzle. Lower pressure drop permits higher flow rates at lower pressure, reducing foaming or backups.

Our unique swivel design permits low temperature operation without leakage around the O-ring seals. The swivel freely rotate seven at temperatures as low as -40°C (-40°F) and pressures as high as 100 PSI. Through-hardened chrome steel roller balls and hardened carbon steel ball race provide long service life.

- Standard nozzle uses a 3 PSI check valve. An optional 5 PSI check valve is available as a field replaceable kit
- Available with a field replaceable Scully compatible connector or tube spout



BALL NOZZLES FOR BULK DELIVERY	
PART NO.	DESCRIPTION
BL062	1¼" NPT swivel inlet x quick fi ll outlet
BL064	1½" NPT swivel inlet x quick fi ll outlet
BL066	1¼" NPT swivel inlet x 1¼" NPT with spout
BL066NS	1¼" NPT swivel inlet x 1¼" NPT without spout
BL068	1½" NPT swivel inlet x 1¼" NPT with spout
BL068NS	1½" NPT swivel inlet x 1¼" NPT without spout
BL072	1½" NPT swivel inlet x 1½" NPT with spout
BL072NS	1½" NPT inlet x 1½" NPT without spout
1143A	1¼" aluminum replacement spout
1125A	1½" aluminum replacement spout

Swivel Nut Pipe Adapters for Ball Nozzles

Nozzle connectors are manufactured from rugged cast bronze. Short body reduces overall length of nozzle. Interchangeable with other manufacturers. For home fuel oil delivery.

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SWIVEL NUT PIPE ADAPTERS FOR BALL NOZZLES	
PART NO.	DESCRIPTION
BL002	1¼" male NPT
BL001	1½" male NPT
BL005	fine thread

Note: Some fuel additives are not compatible with certain seal materials. Please contact the Factory for fuel additive compatibility.

Tanker, Overfill Prevention & Storage Tank Products

Trigger Nozzles - MK2

- Sizes:** Standard 1" BSP Pl. inlet
- Materials:** Aluminium body
Nitrile Seals
- Pressure:** Maximum working pressure 60 psi / 4 bar
- Details:**
- Ideal for Diesel fuel
 - For gravity or pumped use



TRIGGER NOZZLE MK 2	
PART NO.	DESCRIPTION
DATN	Basic
DATN/MS	Male Swivel Tail
DATNC/MS	With Trigger Catch
DATN/FS	With Female Swivel Tail
DATNC/FS	With Trigger Catch

Automatic

- Sizes:** Available in 3/4" BSP Pl. Female
- Materials:** Aluminium
- Pressure:** 30 psi / 2 bar minimum working pressure
- Details:**
- For Diesel dispensing
 - Low flow shut down
 - Robust, quality construction
 - Simple lever catch
 - Automatic flow shut-off



AUTOMATIC NOZZLE	
PART NO.	DESCRIPTION
M3700	Fuel dispensing nozzle



Tank Transport Equipment



PIPE CAPS WITH 12" CHAIN AND 'S' HOOK - BSPP THREAD	
ALUMINIUM PART NO.	SIZE
300PCALAP	3"



Tanker, Overfill Prevention & Storage Tank Products

Tank Transport Equipment - Intermodel



STAINLESS STEEL REDUCERS* FEMALE BSP X MALE BSP	
STAINLESS STEEL* PART NO.	SIZE
3020RDSSAP	3" x 2"

* PTFE gaskets standard

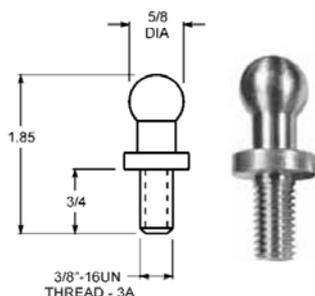
Gaskets & Washers

BUNA-N PART NO.	PTFE PART NO.	NEOPRENE PART NO.	VITON PART NO.	SIZE
-	150GPCTF	-	-	1 1/2"
200GPCBU	200GPCTF	KNW25	KVW25	2"
300GPCBU	300GPCTF	KNW35	KVW35	3"
-	400GPCTF	KNW40	-	4"

Grounding Stud

- Solid brass, stainless steel or aluminium
- With 3/8"-16 UN-3A thread
- For static electric grounding and overfill protection systems

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PART NO.	MATERIAL
GS1	Brass
GS2	Stainless Steel

Tanker, Overfill Prevention & Storage Tank Products

FloTech™ Overfill Prevention Products



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Overfill detection for road tankers is a secondary emergency shut-off system used to prevent overfilling of tanker compartments during the terminal loading process. When an overfill situation is detected, the system will override and shut down the terminal pump/metering equipment filling the tanker compartment(s).

The system consists of overfill sensing devices, which are electronically connected to controls at the terminal through a plug and socket connection. Often on board tanker monitors are employed to inform on the loading process and provide diagnostic data should a problem occur. Monitors also translate electronic signal formats for different operating systems which may exist between the trailer and terminal. The two signal formats used are known as optic and thermistor and are defined by API as Standard #1004. FloTech products specifications for bottom loading and are approved by FM and CSA. Products are manufactured in accordance with EN13922.

Dixon manufactures a full line of sensors, monitors and sockets compatible with Scully and Civacon systems as well as complete overfill kits.



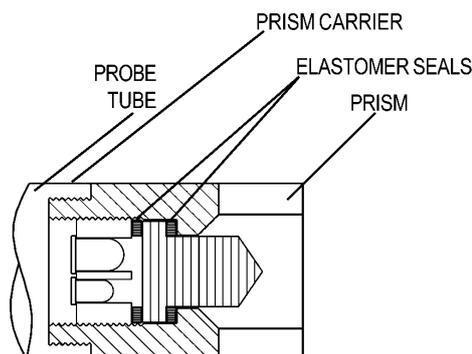
Telephone: +44 (0)1772 323529

Fax: +44 (0)1772 314664

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Tanker, Overfill Prevention & Storage Tank Products

Principals of Operation



Knowledge and Experienced Design

Dixon employees have vast experience in electronics, manufacturing and most important, with the in-the-field trouble shooting of overfill terminal and tanker installation. That is why we have focused on easy, drop-in replacement features with improved probe life, and why Dixon have included heavy duty hardware made from premium, corrosion resistant materials.

Trouble Free Probes and Sensors:

FloTech brand probes/sensors do not use epoxy bonded prisms as a means to seal the prism. Therefore, they are not subject to malfunction due to epoxy/prism interface separation. FloTech brand probes/sensors

incorporate a double elastomer design which seals and secures the sensitive optic prism tip. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and petroleum chemical attack.

“Best in Class” Technical Support

Dixon provide the most reliable overfill components and systems available on the market today. Over the years the FloTech brand has earned a reputation for reliable overfill components compatible with other common systems. FloTech brand items are shipped with easy to follow installation instructions and manuals.

Easy Installation

FloTech brand components are manufactured to be installed easily, even on other systems. They have been designed to be drop-in compatible with API systems being used around the world.

Products In Stock, Delivered On Time

Dixon realise that downtime costs you money so we do everything we can to ensure you receive your parts when you need them.

A Great Product With An Unparalleled Warranty

FloTech brand products are covered by a three year limited warranty. The warranty is part of the total system that makes FloTech overfill detection the best choice for your operation.

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Tanker, Overfill Prevention & Storage Tank Products

Checkmate Retain Overfill System 2-Wire Black and White

Dixon is proud to introduce Checkmate with advanced automatic self-checking technology and performance enhancing features not found in any other system. The FloTech Checkmate has a long list of features that greatly improve reliability and provide years of trouble free service. Checkmate is compatible with the Scully brand black and white two-wire, overfill and retain system. The components are drop-in replacements and compatible with the signal format required by Scully brand on-board monitors.



FT208 Checkmate Retain / Overfill Monitors

- Easy to follow programming guide for a maximum of eight compartments “top only” or “top and bottom” service with the same monitor
- Monitor can be programmed up to 100,000 times without sending it back to the factory
- Monitor resists oxidation of wire connections
- Stainless steel terminal blocks resist rusting of contacts
- Stainless steel hardware used on all products
- Powder coated colour matched components for exceptional appearance
- Auxiliary input for Hobbs type switches
- Power control relay output
- Drop-in compatibility, see compatibility chart on at the end of this section
- Factory Mutual and Canadian Standards Association approved, ATEX approval pending
- Wide input power 12-24 VDC



Tanker, Overfill Prevention & Storage Tank Products

FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One through eight compartment kits are available off the shelf. FloTech brand kits provide everything needed to make a professional installation. Systems include; 1 FT208 monitor, 1 FT151 sensor per compartment, 1 FT404 cable and 1 FT402 (20pcs.) strain reliefs. Sockets sold separately.

Special length probes are available. Please refer to comparison chart for cross references to other manufacturer model numbers.

CHECKMATE OVERFILL SYSTEMS (TOP ONLY)

PART NO.	DESCRIPTION
FT2801	Checkmate, 1 compartment system (top only)
FT2802	Checkmate, 2 compartment system (top only)
FT2803	Checkmate, 3 compartment system (top only)
FT2804	Checkmate, 4 compartment system (top only)
FT2805	Checkmate, 5 compartment system (top only)
FT2806	Checkmate, 6 compartment system (top only)
FT2807	Checkmate, 7 compartment system (top only)
FT2808	Checkmate, 8 compartment system (top only)
FT2801-12	Checkmate, 1 compartment system (top only) - 12" probes
FT2802-12	Checkmate, 2 compartment system (top only) - 12" probes
FT2803-12	Checkmate, 3 compartment system (top only) - 12" probes
FT2804-12	Checkmate, 4 compartment system (top only) - 12" probes
FT2805-12	Checkmate, 5 compartment system (top only) - 12" probes
FT2806-12	Checkmate, 6 compartment system (top only) - 12" probes
FT2807-12	Checkmate, 7 compartment system (top only) - 12" probes
FT2808-12	Checkmate, 8 compartment system (top only) - 12" probes



Systems include: 1 FT208 monitor, 1 FT151 overfill and FT152 retain sensor per compartment, 1 FT404-150 cable and 1 FT403 (30 pcs.) strain reliefs. Sockets sold separately.

Special length probes are available. Please refer to comparison chart for cross references to other manufacturer model numbers.

CHECKMATE RETAIN / OVERFILL SYSTEMS (RETAIN AND OVERFILL)

PART NO.	DESCRIPTION
FT2811	Checkmate, 1 compartment system (retain and overfill)
FT2812	Checkmate, 2 compartment system (retain and overfill)
FT2813	Checkmate, 3 compartment system (retain and overfill)
FT2814	Checkmate, 4 compartment system (retain and overfill)
FT2815	Checkmate, 5 compartment system (retain and overfill)
FT2816	Checkmate, 6 compartment system (retain and overfill)
FT2817	Checkmate, 7 compartment system (retain and overfill)
FT2818	Checkmate, 8 compartment system (retain and overfill)
FT2811-12	Checkmate, 1 compartment system (retain and overfill) - 12" probes
FT2812-12	Checkmate, 2 compartment system (retain and overfill) - 12" probes
FT2813-12	Checkmate, 3 compartment system (retain and overfill) - 12" probes
FT2814-12	Checkmate, 4 compartment system (retain and overfill) - 12" probes
FT2815-12	Checkmate, 5 compartment system (retain and overfill) - 12" probes
FT2816-12	Checkmate, 6 compartment system (retain and overfill) - 12" probes
FT2817-12	Checkmate, 7 compartment system (retain and overfill) - 12" probes
FT2818-12	Checkmate, 8 compartment system (retain and overfill) - 12" probes



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Tanker, Overfill Prevention & Storage Tank Products

Checkmate Retain Overfill System 2-Wire Black and White

The FT150 thermo-optic 2 wire probe is electronically and mechanically compatible for drop-in replacement of commonly used 2-wire probes with black and white wires. The FT150 provides the fast response and reliability of optic technology in a thermistor application. All FloTech brand probes come with a unique dual elastomer seal for prisms and a smooth tapered tip design for easy installation without gasket damage. Custom lengths available upon request. Compatible with the Scully Intellicheck system (probe housing is part # FT90001)



FT150 REPLACEMENT BLACK AND WHITE 2-WIRE PROBES

PART NO.	DESCRIPTION
FT150	Replacement probe, thermo-optic, 2 wire (black and white), 7"
FT150-12	Replacement probe, thermo-optic, 2 wire (black and white), 12"
FT150-18	Replacement probe, thermo-optic, 2 wire (black and white), 18"
FT155	Dummy



The FT151 thermo-optic sensor contains the FT150 probe and a 2" NPT housing. Our probe holder is cast aluminium with a 2" NPT mounting thread, heavy duty stainless steel hardware, and Viton® probe seal. Install in a 2" NPT female thread or 2 3/8" hole using the gasket and locking nut provided. All screws and rings are heavy duty stainless steel for easy assembly and long life. Compatible with Scully Intellicheck monitors (probe housing is part # FT9000)

FT151 THERMO-OPTIC SENSORS

PART NO.	DESCRIPTION
FT151 - ATEX	Sensor, thermo-optic, 2 wire (black and white), 2" NPT housing with 7" probe
FT151-12 - ATEX	Sensor, thermo-optic, 2 wire (black and white), 2" NPT housing with 12" probe
FT151-18 - ATEX	Sensor, thermo-optic, 2 wire (black and white), 2" NPT housing with 18" probe

II 1G

Ex ia IIB T4 Ga;

Ta = -40°C to + 70°C



The FT152 retain sensor is a bottom retain detection sensor. The sensor has a 1/2" NPT mounting. Sensor is shipped with a 1/2" NPT weld-on aluminium half coupling for mounting. The main sensor portion is stainless steel to prevent galling in the trailer. The wiring box is plastic to prevent corrosion and is removable to facilitate installation. The side ports come out of the same side (like the overfill sensors) to make wiring easier. The FT152 is mechanically and electrically compatible with Scully model 08819 and the Scully Intellicheck System.

FT152 RETAIN SENSOR

PART NO.	DESCRIPTION
FT152 - ATEX	Replacement Scully retain sensor, 2 wire (black and white)

II 1G

Ex ia IIB T4 Ga;

Ta = -40°C to + 70°C



The FT208 Checkmate is compatible with the Scully brand black and white two-wire thermo-optic (thermistor) overfill and retain system. Components are drop-in replacement and compatible with the signal format required by the Scully Intellicheck brand on-board monitors. Easy to follow programming guide for a maximum of eight compartments, programmable for number of compartments, top only, top and bottom service with the same monitor.

FT208 CHECKMATE RETAIN / OVERFILL MONITOR

PART NO.	DESCRIPTION
FT208	Checkmate monitor, programmable for top only, or top and bottom sensors, with housing
FT207	Checkmate replacement monitor module

Tanker, Overfill Prevention & Storage Tank Products

R/OM Type Retain/Overfill System Red & Black 2 Wire

These systems incorporate the preferred optic technology (red and black 2 wire) using top overfill as well as bottom retain sensors. Retain sensors inform the terminal if the compartments are empty or if product has been retained. Monitors include advanced diagnostic capabilities as well as translation abilities for all socket types (optic, thermistor or float). The system offers true load at any rack compatibility.

FloTech brand overfill system kits provide everything needed to install a new API compatible overfill system on your tank. One through six compartment kits are available off the shelf. Systems include: 1 FT204P monitor, 1 FT202 sensor per compartment, 1 FT401 100' cable and 1 FT402 (20 pcs.) strain reliefs. Sockets sold separately. Special length probes are available. Please refer to comparison chart for cross references to other manufacturer model numbers.



ROM OVERFILL SYSTEM (TOP ONLY)	
PART NO.	DESCRIPTION
FT2101	R/OM type, 1 compartment system (top only)
FT2102	R/OM type, 2 compartment system (top only)
FT2103	R/OM type, 3 compartment system (top only)
FT2104	R/OM type, 4 compartment system (top only)
FT2105	R/OM type, 5 compartment system (top only)
FT2106	R/OM type, 6 compartment system (top only)
FT2101-12	R/OM type, 1 compartment system (top only) - 12" probes
FT2102-12	R/OM type, 2 compartment system (top only) - 12" probes
FT2103-12	R/OM type, 3 compartment system (top only) - 12" probes
FT2104-12	R/OM type, 4 compartment system (top only) - 12" probes
FT2105-12	R/OM type, 5 compartment system (top only) - 12" probes
FT2106-12	R/OM type, 6 compartment system (top only) - 12" probes

FloTech brand overfill system kits provide everything needed to install a new API compatible retain/ overfill monitor top and bottom system. One through six compartment kits are available off the shelf. Systems include: 1 FT204P monitor, 1 FT202 sensor for each compartment, 1 FT206 retain sensor per compartment, 1 FT401 100' cable and 1 FT402 (20 pcs.) strain reliefs. Sockets sold separately. Special length probes are available. Please refer to comparison chart for cross references to other manufacturer model numbers.

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ROM RETAIN / OVERFILL SYSTEMS (RETAIN AND OVERFILL)	
PART NO.	DESCRIPTION
FT2001	R/OM type, 1 compartment system (retain and overfill)
FT2002	R/OM type, 2 compartment system (retain and overfill)
FT2003	R/OM type, 3 compartment system (retain and overfill)
FT2004	R/OM type, 4 compartment system (retain and overfill)
FT2005	R/OM type, 5 compartment system (retain and overfill)
FT2006	R/OM type, 6 compartment system (retain and overfill)
FT2001-12	R/OM type, 1 compartment system (retain and overfill) - 12" probes
FT2002-12	R/OM type, 2 compartment system (retain and overfill) - 12" probes
FT2003-12	R/OM type, 3 compartment system (retain and overfill) - 12" probes
FT2004-12	R/OM type, 4 compartment system (retain and overfill) - 12" probes
FT2005-12	R/OM type, 5 compartment system (retain and overfill) - 12" probes
FT2006-12	R/OM type, 6 compartment system (retain and overfill) - 12" probes

Tanker, Overfill Prevention & Storage Tank Products



The FT201 is a replacement probe for the FloTech brand FT202 sensor and is compatible with Civacon's 3150 two wire optic probe. The FloTech brand FT200 series probe uses our unique dual elastomer seal prism design to prevent fouling. Other sensor designs use epoxy which crack allowing fuel to leak into the optic path ultimately causing signal malfunction. Custom lengths available upon request (probe housing is part # FT9000).

FT201 REPLACEMENT PROBES	
PART NO.	DESCRIPTION
FT201	Replacement R/OM type, 2 wire (red and black) top probe, 7"
FT201-12	Replacement R/OM type, 2 wire (red and black) top probe, 12"
FT201-18	Replacement R/OM type, 2 wire (red and black) top probe, 18"



The FT202 sensor is a top overfill sensor and part of the FloTech brand retain/overflow monitoring system. The probe holder is cast aluminium with a 2" NPT mounting thread, heavy duty stainless steel hardware, and Viton® seals. The FT202 is mechanically and electrically compatible with the Civacon model 1050 two wire top sensor. The sensor is installed by threading it into a 2" NPT female thread or mounting it in a 2 3/8" hole secured by a gasket and metal locking nut. (probe housing is part # FT9000).

FT202 THERMO-OPTIC SENSORS	
PART NO.	DESCRIPTION
FT202 - ATEX	Sensor R/OM type (red and black), top with 2" NPT housing, with 7" probe
FT202-12 - ATEX	Sensor R/OM type (red and black), top with 2" NPT housing, with 12" probe
FT202-18 - ATEX	Sensor R/OM type (red and black), top with 2" NPT housing, with 18" probe

II 1G
Ex ia IIB T4 Ga;
Ta = -40°C to + 70°C



The FT206 retain sensor is a bottom retain detection sensor and part of the FloTech brand retain/ overflow monitoring system. The sensor has a 1/2" NPT mounting. Sensor comes with a 1/2" NPT weld-on aluminium half coupling for mounting. The main sensor portion is stainless steel to prevent galling in the trailer. The wiring box is plastic to prevent corrosion and is removable to facilitate installation. The side ports come out of the same side (like the overfill sensors) to make wiring easier. The FT206 is mechanically and electrically compatible with the Civacon model 1000 two wire retain sensor.

FT206 RETAIN SENSOR	
PART NO.	DESCRIPTION
FT206 - ATEX	Retain sensor R/OM type (red and black), 1/2" NPT sensor

II 1G
Ex ia IIB T4 Ga;
Ta = -40°C to + 70°C



The FT204P retain/overflow monitor is designed to diagnose and monitor up to six compartments. The FT204P monitor will provide API compatible optic, thermistor, and float socket outputs for a true load at any rack compatibility. FloTech's FT203P is a replacement chassis and is compatible with Civacon 3250 and 3252 onboard monitors.

FT204P RETAIN / OVERFILL MONITOR	
PART NO.	DESCRIPTION
FT204P	R/OM type onboard monitor, with housing
FT203P	Replacement chassis, R/OM type on-board



Tanker, Overfill Prevention & Storage Tank Products

API Optic System 5-Wire

FloTech series FT100 and FT101 sensors are compatible with Scully brand 5 wire optic sensors. FloTech API compatible overfill systems feature long service life and resistance to harsh environments typical on petroleum cargo tanks. Long service life and compatibility make FloTech™ the ideal choice for demanding cargo applications.

FloTech brand overfill system kits provide everything needed to install a new API compatible overfill system on your tank. One through six compartment kits are available off the shelf. Systems include: 1 FT103 monitor, 1 FT101 sensor per compartment, 1 FT400 100' cable and 1 FT402 (20 pcs.) strain reliefs. Sockets sold separately.



OPTIC OVERFILL KITS	
PART NO.	DESCRIPTION
FT1001	API compatible 1 compartment system (optic)
FT1002	API compatible 2 compartment system (optic)
FT1003	API compatible 3 compartment system (optic)
FT1004	API compatible 4 compartment system (optic)
FT1005	API compatible 5 compartment system (optic)
FT1006	API compatible 6 compartment system (optic)
FT1001-12	API compatible 1 compartment system (optic) - 12" probe
FT1002-12	API compatible 2 compartment system (optic) - 12" probe
FT1003-12	API compatible 3 compartment system (optic) - 12" probe
FT1004-12	API compatible 4 compartment system (optic) - 12" probe
FT1005-12	API compatible 5 compartment system (optic) - 12" probe
FT1006-12	API compatible 6 compartment system (optic) - 12" probe



The FT100 replacement probe is electronically and mechanically compatible with the API optic or 5 wire signal format. The FT100 sensor features a dual prism seal design which is more reliable than other designs which glue in the prism using epoxies. Custom lengths are available upon request. The FT100 is compatible with Scully #09208 and Civacon #1300. (probe housing is part # FT9000).

FT100 REPLACEMENT PROBE	
PART NO.	DESCRIPTION
FT100	5 wire API optic probe, 7"
FT100-12	5 wire API optic probe, 12"
FT100-18	5 wire API optic probe, 18"



The FT101 sensor is compatible with the API optic or 5 wire signal format. Our probe holder is cast aluminium with a 2" NPT mounting thread, heavy duty stainless steel hardware, and Viton® seals. Install in a 2" NPT female thread or 23/8" hole using the provided gasket and locking nut. (probe housing is part # FT9000).

FT101 SENSORS	
PART NO.	DESCRIPTION
FT101 - ATEX	Sensor, optic, 5 wire, 2" NPT housing with 7" probe
FT101-12 - ATEX	Sensor, optic, 5 wire, 2" NPT housing with 12" probe
FT101-18 - ATEX	Sensor, optic, 5 wire, 2" NPT housing with 18" probe



The FT103 API compatible monitor works with the FloTech API compatible sensor models FT101/ 100. This six channel monitor will provide API compatible optic, thermistor, and float socket outputs for a true load at any rack compatibility. Entity approved by CSA and FM to ensure safety. The FT102 replacement chassis is compatible with Civacon 3150 or Scully 08563 on-board monitors.

FT103 API COMPATIBLE MONITOR	
PART NO.	DESCRIPTION
FT103	API compatible on-board monitor, with housing
FT102	Replacement chassis, API compatible

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II 1G
Ex ia IIB T4 Ga;
Ta = -40°C to + 70°C

Tanker, Overfill Prevention & Storage Tank Products

Dummies send a permissive signal for any missing compartments. For example, in the United States all overfill systems are formatted assuming a six compartment thermistor trailer. Therefore, the terminal controller must receive six permissive sensor signals to allow loading. One dummy can send up to five signals. Consequently a one to five compartment trailer will contain one FT155 dummy (wired to socket). In Canada, where eight channel systems are mandated, two FT155 dummies are needed with one to three compartment trailers and one FT155 for four to seven compartments. The FloTech FT155 thermistor dummy provides instant permissive signal in the coldest weather and is mechanically and electrically compatible with Scully and Civacon models.



FT155 DUMMY

PART NO.	DESCRIPTION
FT155	Thermistor dummy, 5 compartment

When using the FloTech trailer mounted ground ball the trailer cannot be loaded unless the terminal ground is directly connected to the ground ball.



GROUNDING BALL

PART NO.	DESCRIPTION
FT451	Stainless steel grounding ball

Cables are colour matched to commonly used overfill systems and have a tough, thick outer jacket resistant to oil, UV and abrasion. For watertight cable/sensor connections apply FloTech brand strain/relief sealing glands. Two packages are available: FT402 - 20 pieces for typical top only sensor connection systems or; FT403 - 30 pieces for typical top and bottom sensor connection systems.



CABLES AND GLANDS

PART NO.	DESCRIPTION
FT400	5 conductor cable 100'
FT400-1000	5 conductor cable 1000 FT reel
FT401	7 conductor cable 100'
FT401-150	7 conductor cable 150'
FT401-1000	7 conductor cable 1000 FT reel
FT404	11 conductor cable 100'
FT404-150	11 conductor cable 150'
FT404-1000	11 conductor cable 1000' reel
FT402	Strain relief fittings, 1/2 NPT, 1 box = 20 pcs.
FT403	Strain relief fittings, 1/2 NPT, 1 box = 30 pcs.
FT405-500	Strain relief fittings, 1/2 NPT, 500 piece box

The FT520 optic test kit includes a Go, No/Go tester and test lead sets to test five wire optic probes, two wire optic probes, and on-board monitor socket outputs. It uses the same permissive signal verification as an optic rack monitor. Optional FT521, FT522, FT523 optic test plugs are available for an entire trailer Go, No/Go test.



OPTIC SYSTEM TESTER

PART NO.	DESCRIPTION
FT520	Optic system tester
FT520CASE	Case only for FT520
FT520WOGA	Optic system tester with FT521 test plug no test leads
FT520WOGACASE	Optional case for FT520 WOGA
FT521	API optic test plug with six pins and three J-slots
FT522	Optic test plug with six pins and two or four J-slots
FT523	Optic test plug J-560 type
FT524	Thermistor socket test plug (US)
FT524-8	Thermistor socket test plug (Canada)

Tanker, Overfill Prevention & Storage Tank Products

Sockets

Sockets allow the transfer of the electronic signal from the terminal control monitor to the tanker and return. Sockets will vary depending upon terminal equipment and regional regulations. Dixon offer a full line of sockets for all requirements. FloTech brand sockets are mechanically and electronically compatible with the API RP1004 Rel. 2003 Bottom Loading Specification. Optic and thermistor socket face plates are hard coated aluminium alloy to prevent J-slot wear. All hardware and contact buttons are stainless steel to prevent corrosion. FloTech brand sockets are standard colour coded to permit easy identification (optic sockets are blue, thermistors are green, and float are red). Coloured caps are included for optic and thermistor models. All sockets now incorporate the patented removable nose ring.



FT300 Optic Socket



FT301 Thermistor Socket



FT302 Float Socket



Overfill Prevention Sockets

ALUMINIUM HARDCOAT J-SLOT WEAR RING	
PART NO.	DESCRIPTION
FT300	Optic socket API / WOGA, 6 pin and 3 J-slots
FT301	Thermistor socket, API, 8 pin and 4 J-slots
FT302	Float, API, J560 pin type socket
FT303	Optic socket, 6 pin and 4 J-slots (U.S.)
FT304	Thermistor socket, 10 pin and 4 J-slots (Canada, Europe)
FT305	Thermistor socket, J560 pin type
FT306	Optic socket, J560 pin type
FT307	Optic socket, 6 pin and 4 J-slots (Canada)
FT3010	API optic face plate assembly, 6 pin, 3-J slots
FT3011	API thermistor face plate assembly, 8 pin, 4-J slots
FT3013	Optic pattern contact assembly with thermistor, 6 pin, 4-J slots
FT3014	Thermistor face plate assembly (Canada/Europe), 10 pin 4-J slots
FT3015	Thermistor replacement face plate, J560 type
FT3016	Optic replacement face plate, J560 type
FT3017	Optic pattern face plate assembly (Canada), 6 pin, 4-J slots
FT3020	Blue optic dust cap
FT3021	Green thermistor dust cap
FT304BI	Socket with brake interlock
FT304VI	Socket with vapour recovery interlock
FT304BVI	Socket with both brake interlock and vapour recovery interlock

Dixon offer a complete range of replacement parts for your overfill systems.

GFL series stainless steel nose rings are now available on any configuration socket that you require. The Dixon stainless steel J-slots outlast competitor versions because they are tougher and more corrosion resistant than any other on the market. *GFL socket J-slots are so tough that they are "Guaranteed for Life" against wear. U.S. patent 6,824,423.

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GFL (GUARANTEED FOR LIFE*) SERIES STAINLESS STEEL J-SLOT WEAR RING	
PART NO.	DESCRIPTION
FT300SS	Optic socket API / WOGA, 6 pin and 3 J-slots GFL stainless wear ring
FT301SS	Thermistor socket, API, 8 pin and 4 J-slots GFL stainless wear ring
FT303SS	Optic socket, 6 pin and 4 J-slots (U.S.) GFL stainless wear ring
FT304SS	Thermistor socket, 10 pin and 4 J-slots (Canada, Europe) GFL stain.wear ring
FT307SS	Optic socket, 6 pin and 4 J-slots (Canada) GFL stainless wear ring
FT310SS	API optic face plate assembly, 6 pin, 3 J-slots GFL stainless wear ring
FT311SS	API thermistor face plate assembly, 8 pin, 4 J-slots GFL stainless wear ring
FT313SS	Optic pattern face plate assembly with thermistor, 6 pin, 4-J slots GFL stainless wear ring
FT314SS	Thermistor face plate assembly (Canada/Europe), 10 pin, 4-J slots GFL stainless wear ring
FT317SS	Optic pattern face plate assembly (Canada), 6 pin, 4 J-slots GFL stainless wear ring



Tanker, Overfill Prevention & Storage Tank Products

API Compatible Rack Cords

- FT600 and FT620 are compatible with API thermistor and optic configurations
- Cord available in coiled or straight lengths
- Cord features a heavy highly visible safety orange jacket to meet trip hazard requirements
- Cord is bonded mechanically and has superior abrasion and oil resistance
- Cord sets are interchangeable with Scully and Civacon, please refer to pages 380-381 for the cross reference chart
- Plug body is machined from 6061 aluminum and is color coded optic blue or thermistor green
- Button contacts are made from 316 stainless steel to prevent corrosion or galling
- All other hardware is stainless steel
- All wiring is compatible with standard Scully color codes and wiring number configurations
- The 9 pin conductor is shielded to be compatible with Scully VIP system



MODEL FT620 API OPTIC ASSEMBLIES

PART NO.	SCULLY PART NO.	CIVACON PART NO.	DESCRIPTION
FT620	21831	7120SR	plug with 30' coiled cable
FT620S	-	-	plug with 20' straight cable
FT621	21766	7110	replacement plug body
FT622	27211	-	replacement 30' coiled cable
FT623	08235	-	plug hanger

MODEL FT600 API THERMISTOR ASSEMBLIES

PART NO.	SCULLY PART NO.	CIVACON PART NO.	DESCRIPTION
FT600	21818	7320	plug with 30' coiled cable
FT600C	-	-	API thermistor plug and 30' coiled cord set (Canada)
FT600S	-	-	plug with 20' straight cable
FT600SC	-	-	plug with 20' straight cord set (Canada)
FT601	20769	7310	replacement plug body
FT601-10	08959	-	replacement plug, 10 pin (Canada)
FT602	27211	-	replacement 30' coiled cable
FT603	-	-	plug hanger
FT604	-	-	replacement 20' straight cord



Tanker, Overfill Prevention & Storage Tank Products

Comparison Reference Chart

Listed is a cross reference between FloTech brand "Drop In" replacement parts and competitor products.

REPLACEMENT PARTS & COMPETITOR PRODUCTS				
LIQUID LEVEL SENSORS	FLOTECH PART NO.	CIVACON PART NO.	SCULLY PART NO.	DESCRIPTION
	FT100	1300	09209	Replacement probe, optic, 5-wire, 7" long
	FT100-12	13008	09214	Replacement probe, optic, 5-wire, 12" long
	FT101	1110	09208	Sensor, optic, 5-wire, 2" NPT housing, 7" probe
	FT101-12	11108	09213	Sensor, optic, 5-wire, 2" NPT housing with 12" probe
	FT150	1650	09409	Replacement probe, thermo-optic, 7" long, 2-wire (black & white)
	FT150-12	16508	09414	Replacement probe, thermo-optic, 12" long, 2-wire (black & white)
	FT151	1550	09408	Sensor, thermo-optic, 2" NPT housing, 7" probe, 2-wire (black & white)
	F151-12	15508	09413	Sensor, thermo-optic, 2" NPT housing, 12" probe, 2-wire (black & white)
	FT152	-	08810	Retain sensor
	FT155	1900	08542	Thermistor dummy, 5 compartment
	FT201	1350	-	Replacement R/OM type, 7" top probe, 2-wire (red & black)
	FT201-12	13508	-	Replacement R/OM type, 12" top probe, 2-wire (red & black)
	FT202	1050	-	Top sensor R/OM type, 2" NPT housing, 7" probe, 2-wire (red & black)
	FT202-12	-	-	Top sensor R/OM type, 2" NPT housing, 12" probe, 2-wire (red & black)
	FT205	1910	-	Terminator
	FT206	1000	-	Retain sensor R/OM type, 2" NPT sensor (red & black)
ON BOARD MONITORS	FLOTECH PART NO.	CIVACON PART NO.	SCULLY PART NO.	DESCRIPTION
	FT102	3150	08563	Replacement chassis, API compatible
	FT103	3100	88687	API compatible on-board monitor, with housing
	FT203P	3252	-	Replacement chassis, R/OM type on-board monitor
	FT204P	3202	-	R/OM type on-board monitor, with housing
	FT207	-	09100/09111	Replacement module, Checkmate on-board monitor
	FT208	-	09109.09107	Checkmate programmable monitor for top, or top and bottom sensors
SOCKETS	FLOTECH PART NO.	CIVACON PART NO.	SCULLY PART NO.	DESCRIPTION
	FT300	4100	07974	API compatible optic socket with cap (6 pin, 3 J-slots)
	FT301	4400	07720	API compatible thermistor socket with cap (8 pin, 2/4 J-slots)
	FT302	4600	08116	API compatible float socket
	FT303	4200	07976	Optic pattern with thermistor J-slots, and cap (6 pin, 2/4 J-slots)
	FT304	4401	07716	Canadian / European thermistor socket with cap (10 pin, 4 J-slots)
	FT305	4500	07681	Thermistor socket, J560 type
	FT306	4300	08199	Optic socket, J560 type
	FT310	4110	21790	API optic face plate assembly with cap
	FT311	4410	20770	API thermistor face plate assembly with cap
	FT314	-	20768	Canadian / European thermistor replacement face plate with cap
	FT320	4150	08575	Blue optic dust cap
	FT321	4450	08574	Green thermistor dust cap
	FT390	-	09060	EZ-Cept dual socket assembly
	FT304BI	-	08646I	Socket with brake interlock
	FT304VI	4401B	08646P	Socket with vapour recovery interlock
	FT304BVI	4401E-SQS	08646IP	Socket with both brake interlock and vapour recovery interlock
HARDWARE SYSTEM TESTERS	FLOTECH PART NO.	CIVACON PART NO.	SCULLY PART NO.	DESCRIPTION
	FT400	2100	22056	5 conductor cable 100'
	FT401	2310	27382	7 conductor cable 100'
	FT402	2510	-	20 strain relief fittings, 1/2 NPT
	FT403	-	-	30 strain relief fittings, 1/2 NPT
	FT520	-	-	Optic system tester
	FT530	-	-	T.I.M. reader

Civacon and R/OM are registered trademarks of Civacon/Dover Corp. Intellicheck is a registered trademark of Scully Signal Co.

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Tanker, Overfill Prevention & Storage Tank Products

Comparison Reference Chart (continued)

Listed is a cross reference between FloTech brand "Drop In" replacement parts and competitor products.

REPLACEMENT PARTS & COMPETITOR PRODUCTS				
ON BOARD SYSTEMS	FLOTECH PART NO.	CIVACON PART NO.	SCULLY PART NO.	DESCRIPTION
	FT1004	2004	08305	API compatible 4 compartment system
	FT1005	2005	08306	API compatible 5 compartment system
	FT2004	3024	-	R/OM type, 4 compartment system
	FT2005	3025	-	R/OM type, 5 compartment system
	FT2104	3034	-	R/OM type, 4 compartment system (top only)
	FT2105	3035	-	R/OM type, 5 compartment system (top only)
	FT2801	-	08251	Checkmate system, one compartment, top only
	FT2802	-	08352	Checkmate system, two compartment, top only
	FT2803	-	08353	Checkmate system, three compartment, top only
	FT2804	-	08354	Checkmate system, four compartment, top only
	FT2805	-	08355	Checkmate system, five compartment, top only
	FT2806	-	08356	Checkmate system, six compartment, top only
	FT2807	-	08380	Checkmate system, seven compartment, top only
	FT2808	-	08381	Checkmate system, eight compartment, top only
	FT2811	-	08361	Checkmate system, one compartment, top and bottom sensors
	FT2812	-	08362	Checkmate system, two compartment, top and bottom sensors
	FT2813	-	08363	Checkmate system, three compartment, top and bottom sensors
	FT2814	-	08364	Checkmate system, four compartment, top and bottom sensors
	FT2815	-	08365	Checkmate system, five compartment, top and bottom sensors
	FT2816	-	08366	Checkmate system, six compartment, top and bottom sensors
	FT2817	-	08382	Checkmate system, seven compartment, top and bottom sensors
	FT2818	-	08383	Checkmate system, eight compartment, top and bottom sensors

Civacon and R/OM are registered trademarks of Civacon/Dover Corp. Intellicheck is a registered trademark of Scully Signal Co.

Dixon Valve and Coupling Company warrants the FloTech products described herein, and manufactured by Dixon to be free from defects in material and workmanship for a period of three (3) years from date of shipment by Dixon under normal use and service.

For further warranty information see page 509.

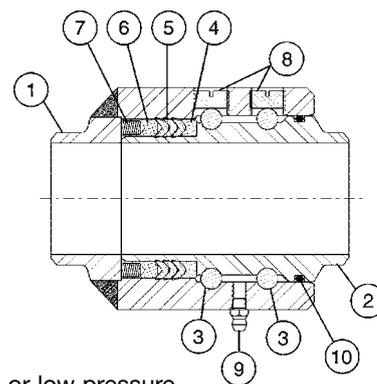
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Tanker, Overfill Prevention & Storage Tank Products

V-Ring Swivel Joints

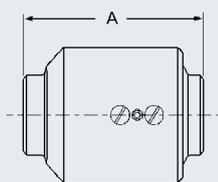
- | | |
|---------------------------|------------------------|
| 1. Body | 6. Spring retainer |
| 2. Sleeve | 7. Spring |
| 3. Ball bearings | 8. Ball retainer screw |
| 4. Seal retainer | 9. Grease fitting |
| 5. V-Ring (pressure) seal | 10. O-Ring (dust) seal |



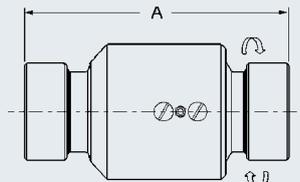
V-Ring Features

- The spring-loaded triple V-ring sealing system ensures a leak proof seal at either high or low pressure and an extended seal life compared to the conventional single O-ring design
- The 3" - 8" carbon steel swivels are manufactured from a special grade of carbon steel with flame hardened dual raceways for greater load bearing capacity and longer life
- The stainless steel swivels are manufactured in 316 grade stainless steel for superior corrosion resistance.
- Available with pressure ratings to 1,000 psi
- Available in carbon steel, stainless steel and aluminum

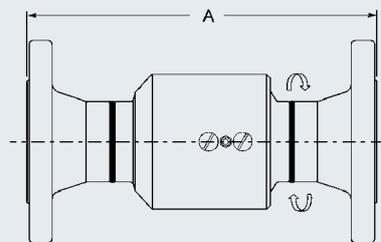
Single Plane V-Ring Style 20



weld end x weld end
sizes 2" - 8"

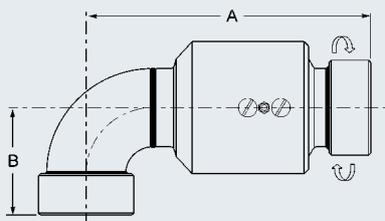


female NPT x female NPT
sizes 2" - 8"

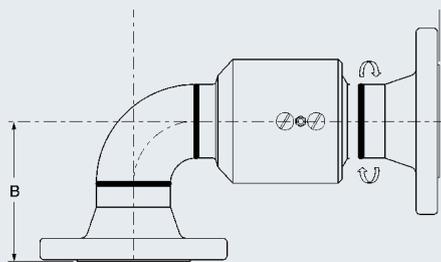


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Single Plane V-Ring Style 30

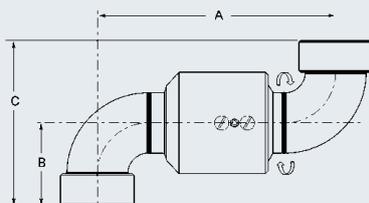


female NPT x female NPT
sizes 2" - 8"

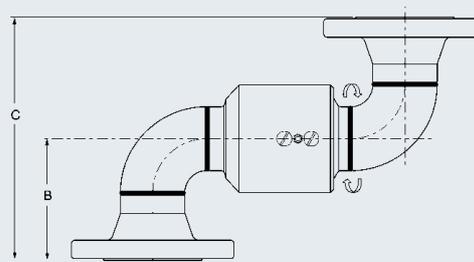


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Single Plane V-Ring Style 40



female NPT x female NPT
sizes 2" - 8"

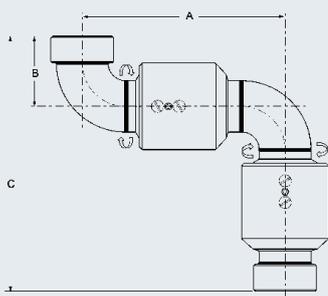


150# ASA flange x 150# ASA flange
sizes 2" - 8"

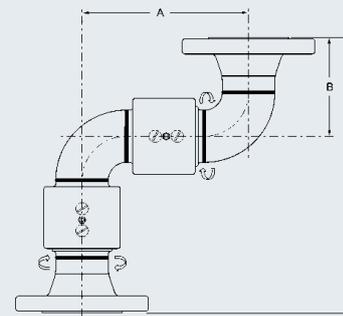
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Tanker, Overfill Prevention & Storage Tank Products

Double Plane V-Ring Style 50

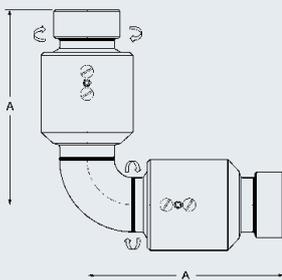


female NPT x female NPT
sizes 2" - 8"

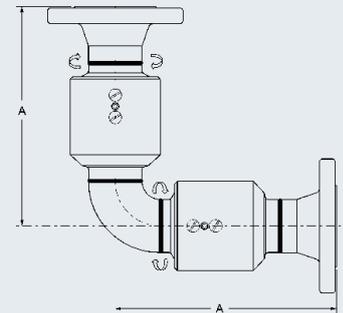


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Double Plane V-Ring Style 60

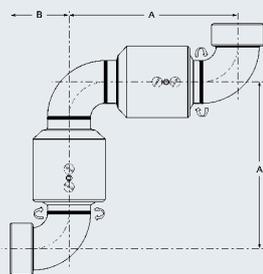


female NPT x female NPT
sizes 2" - 8"

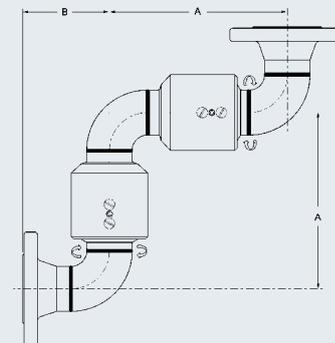


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Double Plane V-Ring Style 70

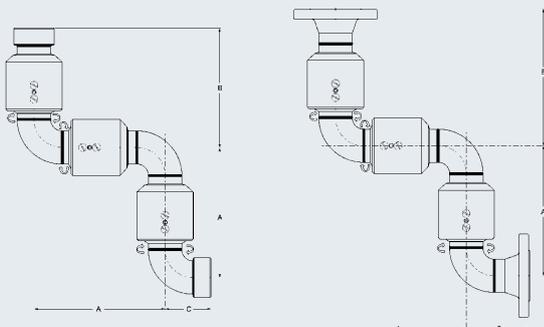


female NPT x female NPT
sizes 2" - 8"



150# ASA flange x 150# ASA flange
sizes 2" - 8"

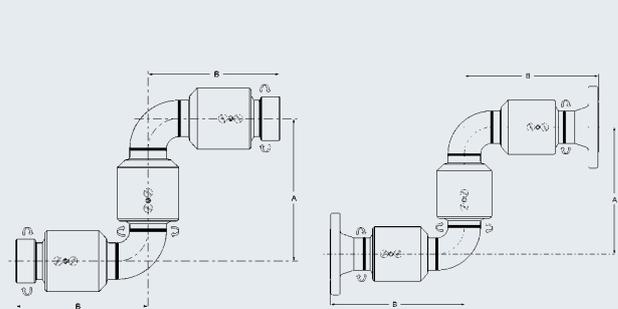
Triple Plane V-Ring Style 80



female NPT x female NPT
sizes 2" - 8"

150# ASA flange x 150# ASA flange
sizes 2" - 8"

Triple Plane V-Ring Style 10



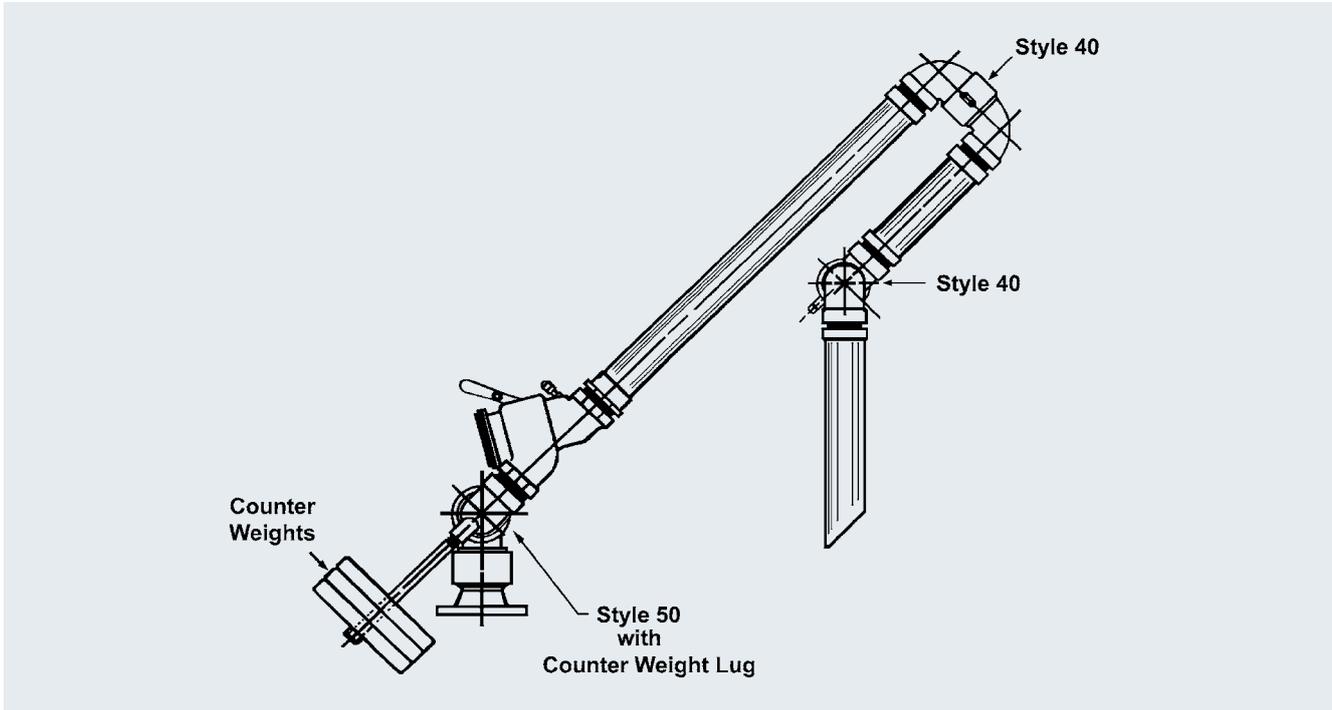
female NPT x female NPT
sizes 2" - 8"

150# ASA flange x 150# ASA flange
sizes 2" - 8"

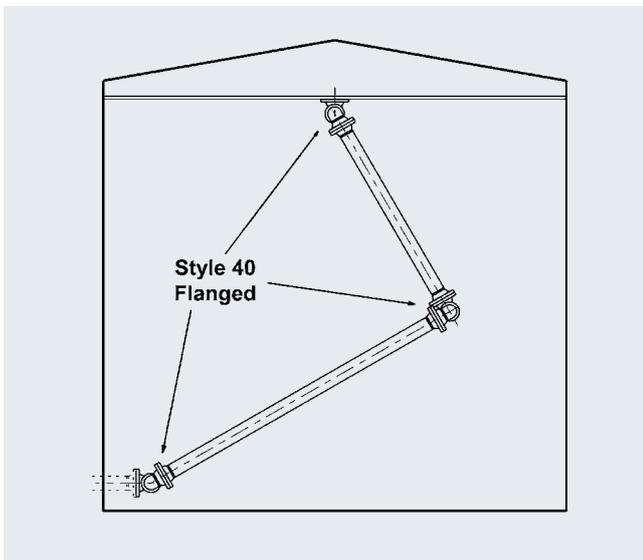
Tanker, Overfill Prevention & Storage Tank Products

Typical Applications for V-Ring Swivels

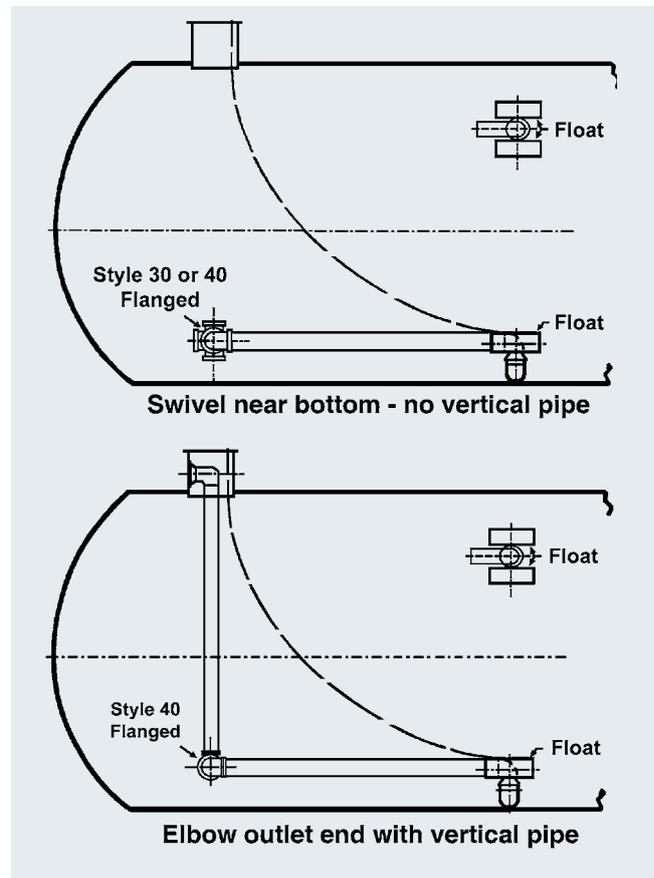
Loading Arms



Floating Roof Drains



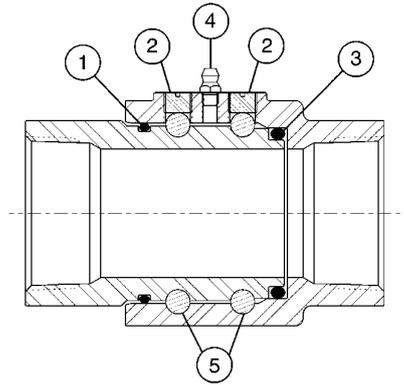
Floating Suction



Tanker, Overfill Prevention & Storage Tank Products

O-Ring Swivel Joints

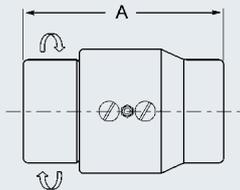
1. O-Ring (dust) seal
2. Ball retainer screw
3. O-Ring (pressure) seal
4. Grease fitting
5. Ball bearings



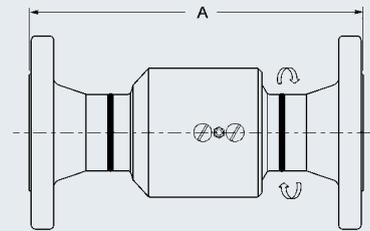
O-Ring Features

- The O-ring pressure seal ensures a leak-proof seal at either high or low pressure and smoother rotation at lower torque than multiple seal designs
- Spring-loaded PTFE pressure seals are available up through 3"
- Carbon steel and stainless steel O-ring type swivels provide greater strength and corrosion resistance when needed for lower torque applications
- Available in carbon steel, stainless steel, aluminum, brass and iron

Single Plane O-Ring Style 20

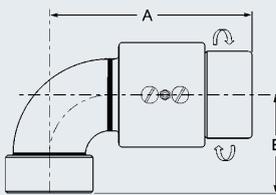


female NPT x female NPT
sizes 1" - 4"

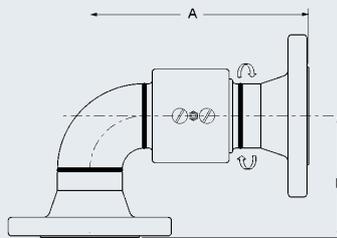


150# ASA flange x 150# ASA flange
sizes 1" - 4"

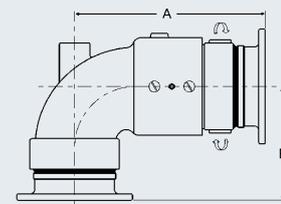
Single Plane O-Ring Style 30



female NPT x female NPT
sizes 1" - 4"

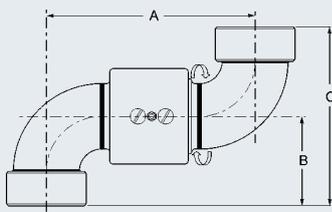


150# ASA flange x 150# ASA flange
sizes 1" - 4"

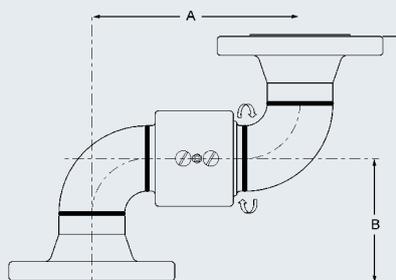


tank truck flange x tank truck flange
sizes 2" - 4"

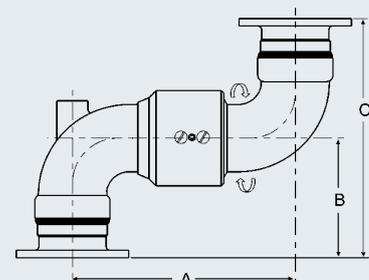
Single Plane O-Ring Style 40



female NPT x female NPT
sizes 1" - 4"



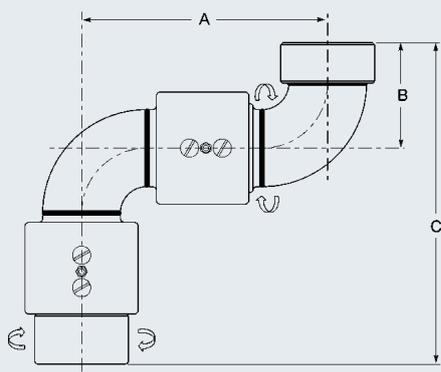
150# ASA flange x 150# ASA flange
sizes 1" - 4"



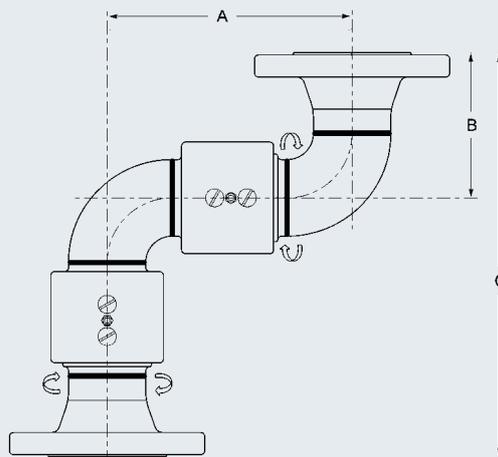
tank truck flange x tank truck flange
sizes 2" - 4"

Tanker, Overfill Prevention & Storage Tank Products

Double Plane O-Ring Style 50

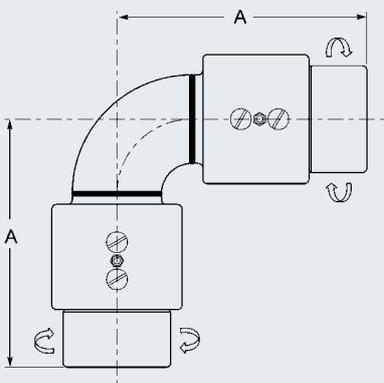


female NPT x female NPT
sizes 1" - 4"

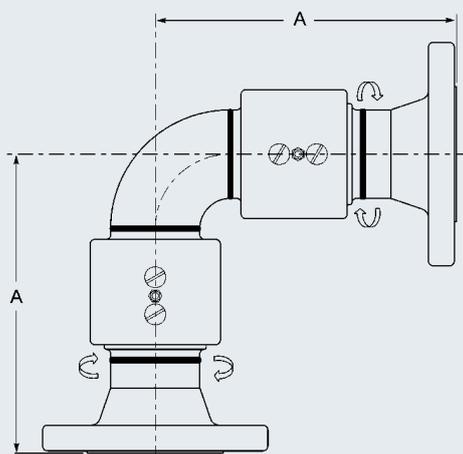


150# ASA flange x 150# ASA flange
sizes 1" - 4"

Double Plane O-Ring Style 60

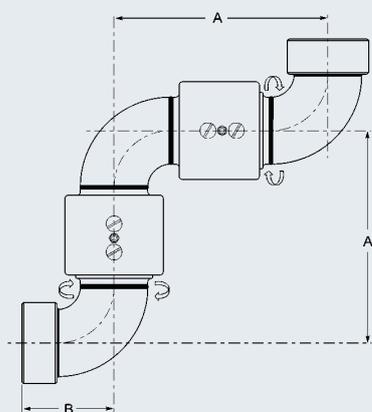


female NPT x female NPT
sizes 1" - 4"

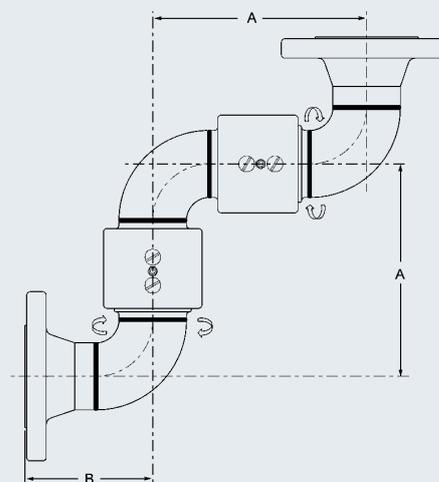


150# ASA flange x 150# ASA flange
sizes 1" - 4"

Triple Plane O-Ring Style 70



female NPT x female NPT
sizes 1" - 4"



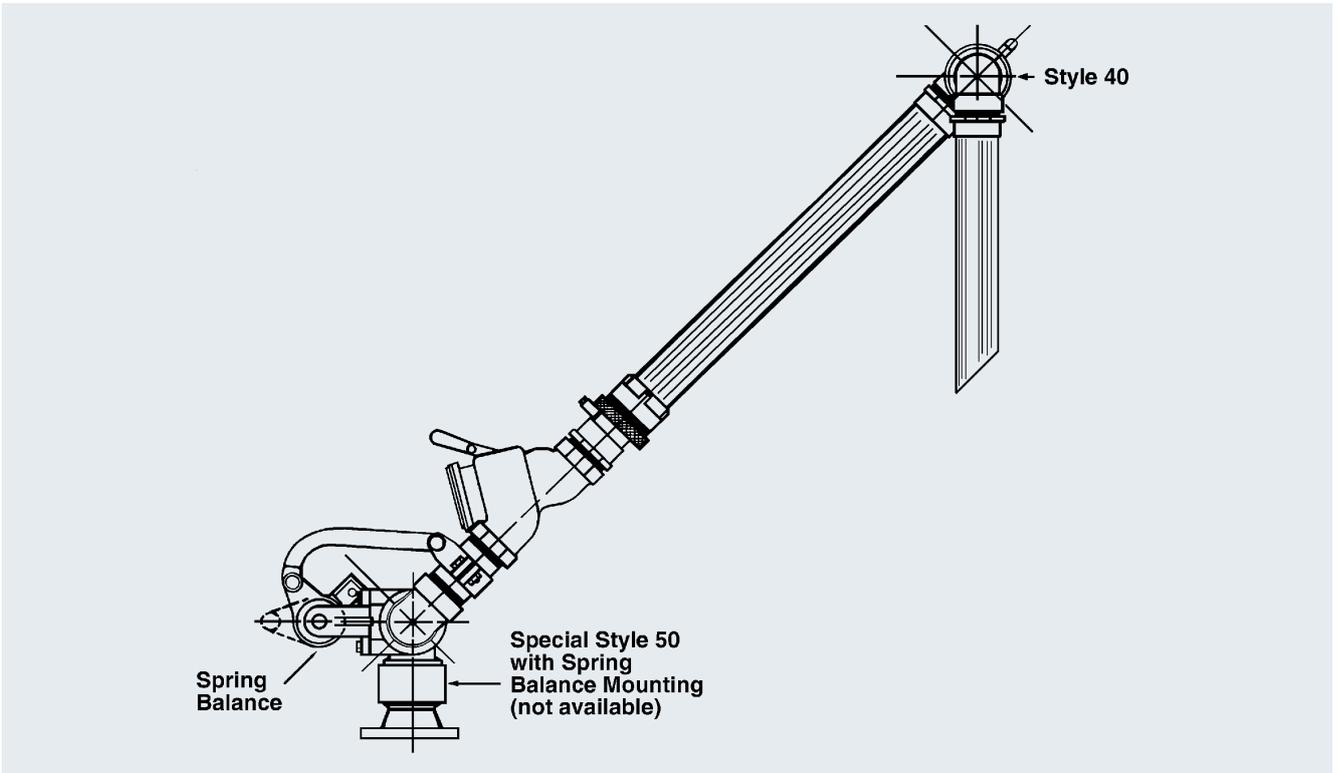
150# ASA flange x 150# ASA flange
sizes 1" - 4"

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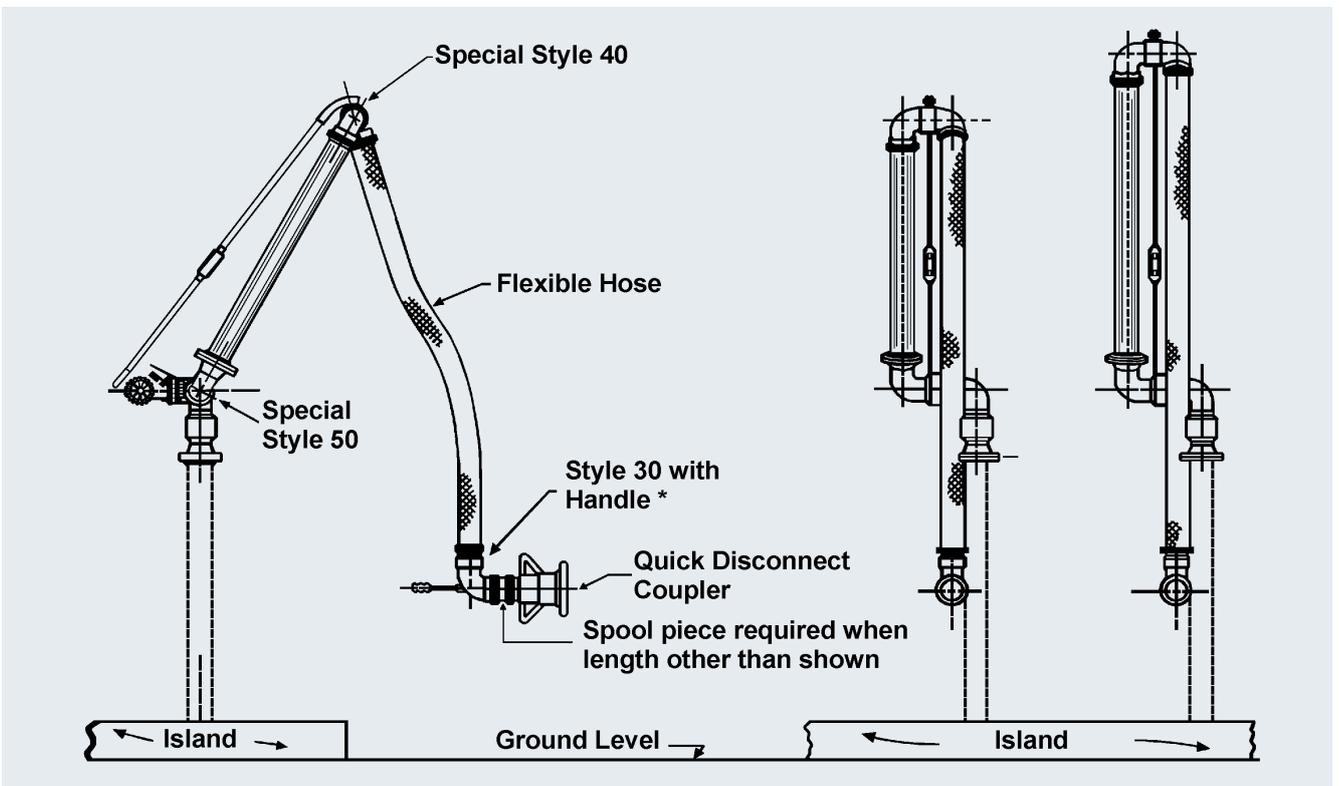
Tanker, Overfill Prevention & Storage Tank Products

Typical Applications for O-Ring Swivels

Loading Arms



Hose Loaders



* style 60 may also be found in this application



Tanker, Overfill Prevention & Storage Tank Products

Dry Disconnect Couplings

When your product is:

- Expensive
- Expensive to clean up
- Expensive to reprocess or dispose
- Hazardous to workers or the environment
- Prone to accidental spillage and product loss

Dry Disconnect Couplings are designed for quick and spill free connection and disconnection of hoses and pipelines. They are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.



- **Easy to handle -**
Push and turn - free flow, turn and pull - closed
- **Time saving-**
No need to drain hoses or pipe systems
- **Economical-**
No loss or spillage of liquids at connection or disconnection
- **Safety-**
The valve cannot be opened until the unit is coupled
- **Environment friendly-**
Accidental spillage eliminated
- **Safe and reliable-**
Due to rugged construction
- **Selectivity-**
Optional selectivity for preventing contamination due to incorrect and cross-coupling
- **Product life-**
Uncomplicated design and high quality materials ensures longer product life
- **Working Pressure -**

Aluminum:	260 psi / 18 bar
Brass/ Gunmetal:	360 psi / 25 bar
Stainless Steel:	360 psi / 25 bar
- **Optional Seals-**

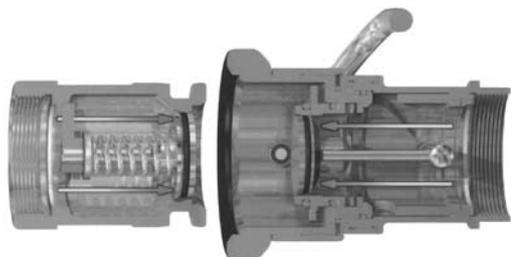
EPDM	BR - nitrile
Kalrez®	Chemraz®
Perlast®	

Interchanges with Avery Hardoll and Todo-matic®

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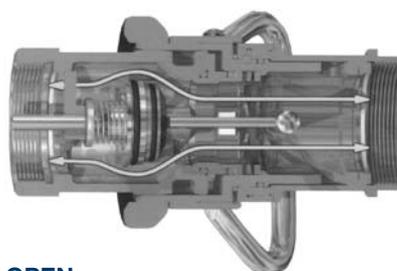
How it works

The principle of operation is identical for all sizes of couplings.



CLOSED:

- Turn and pull
It's released - no spillage



OPEN:

- Push and turn
It's coupled - full flow

Tanker, Overfill Prevention & Storage Tank Products

Dry Quick Disconnect Couplers

Hose Unit

- Coupler has built-in swivel
- Stainless Steel ball bearings
- Shaft journal in stainless steel embedded in PTFE to eliminate seizure
- Riveted piston pin to minimise the risk for failure under extreme pressure conditions
- Protecting ring is weather resistant rubber
- Electrically conductive
- All wetted parts are stainless steel
- Rollers for the stainless steel units are Hastelloy™ C276 on the stainless steel shaft
- Rollers for the Aluminium and Brass units are Aluminium-bronze on the stainless steel shaft



DRY QUICK DISCONNECT COUPLERS x FEMALE THREAD WITH VITON® SEALS

PART NO.	FEMALE NTP/BSP	BODY SIZE	BODY MATERIAL
DDC150SS	1 1/2"	70mm	316 Stainless Steel
DDC200SS	2"	70mm	316 Stainless Steel
DDC300SS105	3"	105mm	316 Stainless Steel
DDC300SS	3"	119mm	316 Stainless Steel
DDC400SS	4"	164mm	316 Stainless Steel
DDC150AL	1 1/2"	70mm	Anodised Aluminium
DDC200AL	2"	70mm	Anodised Aluminium
DDC300AL105	3"	105mm	Anodised Aluminium
DDC300AL	3"	119mm	Anodised Aluminium
DDC400AL	4"	164mm	Anodised Aluminium
DDC150BR	1 1/2"	70mm	Brass
DDC200BR	2"	70mm	Brass
DDC300GM105	3"	105mm	Gunmetal
DDC300GM	3"	119mm	Gunmetal
DDC400GM	4"	164mm	Gunmetal

COMPOSITE DUST PLUGS FOR COUPLERS

PART NO.	SIZE	BODY SIZE
DDDP150	1 1/2" and 2"	70mm
DDDP300105	3"	105mm
DDDP300	3"	119mm
DDDP400	4"	164mm



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Tanker, Overfill Prevention & Storage Tank Products

Dry Quick Disconnect Adapters

Tank Unit

- The adapter is usually installed on the tank or manifold
 - Available in female NPT/BSP or 150# ASA flange
 - Conical valve seat to eliminate the risk for “piston blow out”
 - PTFE bearing between the piston shaft and the piston guide to eliminate the risk for seizure
- Construction:**
- Aluminium adapter - Aluminium poppet, stainless steel internal parts
 - Stainless Steel adapter - Stainless steel poppet, stainless steel internal parts
 - Brass / Gunmetal adapter - Brass poppet, Brass and stainless steel internal parts



DRY QUICK DISCONNECT ADAPTERS x FEMALE THREAD WITH VITON® SEALS			
PART NO.	FEMALE NPT/BSP	BODY SIZE	BODY MATERIAL
DDA150SS	1 1/2"	70mm	316 Stainless Steel
DDA200SS	2"	70mm	316 Stainless Steel
DDA300SS105	3"	105mm	316 Stainless Steel
DDA300SS	3"	119mm	316 Stainless Steel
DDA400SS	4"	164mm	316 Stainless Steel
DDA150AL	1 1/2"	70mm	Anodised Aluminium
DDA200AL	2"	70mm	Anodised Aluminium
DDA300AL105	3"	105mm	Anodised Aluminium
DDA300AL	3"	119mm	Anodised Aluminium
DDA400AL	4"	164mm	Anodised Aluminium
DDA150BR	1 1/2"	70mm	Brass
DDA200BR	2"	70mm	Brass
DDA300GM105	3"	105mm	Gunmetal
DDA300GM	3"	119mm	Gunmetal
DDA400GM	4"	164mm	Gunmetal



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DRY QUICK DISCONNECT ADAPTERS x 150# ASA FLANGE WITH VITON® SEALS			
PART NO.	FEMALE NPT/BSP	BODY SIZE	BODY MATERIAL
DDA150SSFL	1 1/2"	70mm	316 Stainless Steel
DDA200SSFL	2"	70mm	316 Stainless Steel
DDA300SS105FL	3"	105mm	316 Stainless Steel
DDA300SSFL	3"	119mm	316 Stainless Steel
DDA400SSFL	4"	164mm	316 Stainless Steel
DDA150ALFL	1 1/2"	70mm	Anodised Aluminium
DDA200ALFL	2"	70mm	Anodised Aluminium
DDA300AL105FL	3"	105mm	Anodised Aluminium
DDA300ALFL	3"	119mm	Anodised Aluminium
DDA400ALFL	4"	164mm	Anodised Aluminium
DDA150BRFL	1 1/2"	70mm	Brass
DDA200BRFL	2"	70mm	Brass
DDA300GM105FL	3"	105mm	Gunmetal
DDA300GMFL	3"	119mm	Gunmetal
DDA400GMFL	4"	164mm	Gunmetal



COMPOSITE DUST CAPS FOR ADAPTERS		
PART NO.	SIZE	BODY SIZE
DDDC150	1 1/2" and 2"	70mm
DDDC300105	3"	105mm
DDDC300	3"	119mm
DDDC400	4"	164mm

Tanker, Overfill Prevention & Storage Tank Products

Dry Break Cam and Groove Dry Disconnect Couplings

Compatible with most cam and groove style dry disconnects. The Bayco dry disconnect helps prevent spillage from normal or accidental disconnects. A spring loaded sealing device is designed to snap closed should the valve become disconnected with the poppet open, significantly limiting liquid loss.

Our dry disconnect couplings are available in a wide range of sizes, metals, and seal materials. Please refer to our product description cross-reference chart for details. Special configurations can be designed for your application.

Couplers

- Dry disconnect coupler has automatic closing poppet assembly
- Heavy duty stainless steel crank and link provide long service life
- Stainless steel handle allows product exposure to corrosive chemicals or washdown service
- Strong handle attachment prevents bending of crank assembly
- Fully interchangeable with Kamvalok (OPW trademark) style fittings
- Aluminum fittings have stainless steel internals*
- For pressure ratings at other temperatures, contact the factory
- Dixon EZ Boss-Lock cam arms provide high security from accidental opening due to vibration or snagging on 1½” and 2” fittings
- Large paddle type cam arms allow for an easy grip on 3” fittings

SAFETY ALERT
Must be used with a DBA style adapter for coupler to operate.
Adapter sold separately.



1½” and 2” coupler x female NPT



1½” and 2” coupler x female NPT

COUPLER x FEMALE NPT					
ALUMINIUM PART NO.	STAINLESS STEEL* PART NO.	FEMALE NPT	COUPLER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBC61-150	DBC71-150	1½”	2”	Buna	210
DBC61-200	DBC71-200	2”	2½”		150
DBC61-300	DBC71-300	3”	4”		120
DBC62-150	DBC72-150	1½”	2”	Viton®	210
DBC62-200	DBC72-200	2”	2½”		150
DBC62-300	DBC72-300	3”	4”		120
DBC63-150	DBC73-150	1½”	2”	PTFE Encapsulated Silicone & Kalrez®	210
DBC63-200	DBC73-200	2”	2½”		150
DBC63-300	DBC73-300	3”	4”		120
DBC64-150	DBC74-150	1½”	2”	EPT	210
DBC64-200	DBC74-200	2”	2½”		150
DBC64-300	DBC74-300	3”	4”	Kalrez® and PTFE**	120
---	DBC76-150	1½”	2”		210
DBC66-200	DBC76-200	2”	2½”	PTFE Encapsulated Viton® & Kalrez® Viton® B	150
---	DBC76-300	3”	4”		120
---	DBC77-150	1½”	2”		210
---	DBC77-200	2”	2½”	150	
---	DBC77-300	3”	4”		120
DBC69-300	DBC79-300	3”	4”	120	

GREASELESS COUPLER x FEMALE NPT				
STAINLESS STEEL* PART NO.	FEMALE NPT	COUPLER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBC77-150-GL	1½”	2”	PTFE Encapsulated Viton® & Kalrez®	210
DBC77-200-GL	2”	2½”	PTFE Encapsulated Viton® & Kalrez®	150

* Stainless steel corrosion resistance is comparable to 304 stainless steel

**Kalrez® gasket, main seal O-ring and handle O-ring. PTFE seals on cylinder assembly, stuffing box, and seal under poppet screw.



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COUPLER x 90° SWIVEL FEMALE NPT				
ALUMINIUM PART NO.	FEMALE NPT	COUPLER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBS61-200	2"	2½"	Buna	150
DBS62-200	2"	2½"	Viton®	150
DBS63-200	2"	2½"	PTFE Encapsulated Silicone & Kalrez®	150

Dust Plug for Couplers



DUST PLUG FOR COUPLERS		
ALUMINIUM PART NO.	STAINLESS STEEL* PART NO.	SIZE
200-DP-AL	200-DP-SS	2"
250-DP-AL	250-DP-SS	2½"
400-DP-AL	400-DP-SS	4"

* Stainless steel corrosion resistance is comparable to 304 stainless steel

Locking Kit for Couplers



LOCKING KIT FOR COUPLERS	
ALUMINIUM PART NO.	DESCRIPTION
DBCL-200	for use with 1½" and 2" dry disconnect couplers for use with 3" dry disconnect couplers
DBCL-300	

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Tanker, Overfill Prevention & Storage Tank Products

Adapters

- Two-piece adapter design for easy rebuilding of adapters
- Fully interchangeable with Kamvalok (OPW trademark) style fittings
- Aluminum fittings have aluminum nose piece and brass piston
- For pressure ratings at other temperatures, contact the factory



1 1/2" and 2" adapter



3" adapter

ADAPTER X FEMALE NPT					
ALUMINIUM PART NO.	STAINLESS STEEL* PART NO.	FEMALE NPT	ADAPTER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBA11-150	DBA71-150	2"	2"	Buna	210
DBA11-200	DBA71-200	2 1/2"	2 1/2"		150
DBA11-300	DBA71-300	4"	4"		120
DBA12-150	DBA72-150	2"	2"	Viton®	210
DBA12-200	DBA72-200	2 1/2"	2 1/2"		150
DBA12-300	DBA72-300	4"	4"		120
DBA63-150	DBA73-150	2"	2"	PTFE Encapsulated Silicone	210
DBA63-200	DBA73-200	2 1/2"	2 1/2"		150
DBA63-300	DBA73-300	4"	4"		120
DBA64-150	DBA74-150	2"	2"	EPT	210
DBA64-200	DBA74-200	2 1/2"	2 1/2"		150
DBA64-300	DBA74-300	4"	4"		120
DBA66-150	DBA76-150	2"	"	Kalrez®	210
DBA66-200	DBA76-200	2 1/2"	4"		150
DBA66-300	DBA76-300	4"	"		PTFE Encapsulated
---	DBA77-150	2"	"	Viton®	210
---	DBA77-200	2 1/2"	"	Viton® B	150
---	DBA77-300	4"	"		120
DBA69-300	---	4"	"		120

JUMP SIZE ADAPTER X FEMALE NPT				
ALUMINIUM PART NO.	FEMALE NPT	ADAPTER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBA11-1520	2"	2"	Buna	150
DBA12-1520	2"	2"	Viton®	150

* Stainless steel corrosion resistance is comparable to 304 stainless steel



ADAPTER X 150# ASA FLANGE				
STAINLESS STEEL* PART NO.	FLANGE SIZE	ADAPTER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBAF72-1520	2"	2"	Viton®	150
DBAF73-1520	2"	2"	PTFE Encapsulated Silicone	150
DBAF74-1520	2"	2"	EPT	150
DBAF76-1520	2"	2"	Kalrez®	150
DBAF72-200	2"	2"	Viton®	150
DBAF73-200	2"	2"	PTFE Encapsulated Silicone	150
DBAF74-200	2"	2 1/2"	EPT	150
DBAF76-200	2"	2 1/2"	Kalrez®	150
DBAF72-300	2"	2 1/2"	Viton®	150
DBAF73-300	3"	4"	PTFE Encapsulated Silicone	120
DBAF74-300	3"	4"	EPT	120
DBAF76-300	3"	4"	Kalrez®	120

* Stainless steel corrosion resistance is comparable to 304 stainless steel



VAPOR ADAPTER X FEMALE THREAD				
STAINLESS STEEL* PART NO.	FEMALE NPSM	ADAPTER SIZE	SEAL MATERIAL	MAX. PSI AT 70°C
DBAV73-2030	2"	3"	PTFE	150

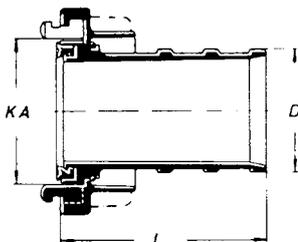
* Stainless steel corrosion resistance is comparable to 304 stainless steel



Tanker, Overfill Prevention & Storage Tank Products

Aluminium Storz Couplings

- Sizes:** 1/2" to 8"
- Materials:** Aluminium Alloy
Optional Materials of Stainless Steel and Brass available
- Pressure:** Maximum working pressure 16 bar/232 psi
- Options:** Both halves of the coupling are of an identical design with no separate male or female halves. Either half can, therefore, be connected to any similar size of coupling. The hose coupling can be connected to another style, e.g.: hose tail, female or male threaded and blanking caps. It is essential that the distance between locking ears (KA) is the same on all fittings

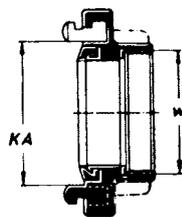


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SUCTION COUPLINGS				
PART NO.	NOMINAL SIZE	D (mm)	KA (mm)	L (mm)
2/D-25 AL	Storz 25 (D) = DIN 14301	25	31	50
2/32-19 AL	Storz 32	19	44	65
2/32-25 AL	Storz 32	25	44	65
2/32-32 AL	Storz 32	32	44	75
2/38-38 AL	Storz 38	38	52	75
2/C-32 AL	Storz 52 (C)	25	66	90
2/C-38 AL	Storz 52 (C)	32	66	90
2/C-45 AL	Storz 52 (C)	45	66	90
2/C-52 AL	Storz 52 (C) = DIN14321	52	66	90
2/C-60 AL	Storz 52 (C)	60	66	125
2/65-65 AL	Storz 65	65	81	90
2/B-65 AL	Storz 75 (B)	65	89	125
2/B-70 AL	Storz 75 (B)	70	89	95
2/B-75 AL	Storz 75 (B) = DIN 14322	75	89	125
2/B-80 AL	Storz 75 (B)	80	89	135
2/90 AL	Storz 90	90	105	150
2/100 AL	Storz 100	100	115	120
2/A-100 AL	Storz 110 (A)	100	133	170
2/A-110 AL	Storz 110 (A) = DIN 14323	110	133	170
2/125 AL	Storz 125	125	148	196
2/135-135 AL	Storz 135	135	159	196
2/150-150 AL	Storz 150 = F (3 Claws) Forged	150	160	180
2/165-150 AL	Storz 165	150	188	275
2/205 AL	Storz 205	205	220	375
96	Storz Spanner	-	-	-

Rubber Seals (suitable for Petrol and Oil Fluids)

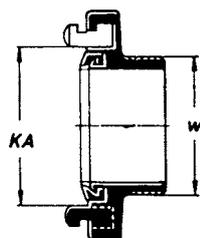
Tanker, Overfill Prevention & Storage Tank Products



BSSP FEMALE THREADED ADAPTERS

PART NO.	NOMINAL SIZE DIN ISO 228	PIPE THREAD	KA (mm)	MATERIAL
3/D-050 AL	Storz 25 (D) - DS*	1/2"	31	Aluminium Alloy
3/D-075 AL	Storz 25 (D) - DS*	3/4"	31	Aluminium Alloy
3/D-100 AL	Storz 25 (D) - DS* = DIN14306	1"	31	Aluminium Alloy
3/32-100 AL	Storz 32 - DS*	1"	44	Aluminium Alloy
3/32-125 AL	Storz 32 - DS*	1 1/4"	44	Aluminium Alloy
3/38-150 AL	Storz 38 - DS*	1 1/2"	52	Aluminium Alloy
3/38-200 AL	Storz 38 - DS*	2"	52	Aluminium Alloy
3/C-100 AL	Storz 52 (C)	1"	66	Aluminium Alloy
3/C-125 AL	Storz 52 (C)	1 1/4"	66	Aluminium Alloy
3/C-150 AL	Storz 52 (C)	1 1/2"	66	Aluminium Alloy
3/C-200 AL	Storz 52 C = DIN14307	2"	66	Aluminium Alloy
3/C-250 AL	Storz 52 (C)	2 1/2"	66	Aluminium Alloy
3/65-200 AL	Storz 65	2"	81	Aluminium Alloy
3/65-250 AL	Storz 65	2 1/2"	81	Aluminium Alloy
3/B-200 AL	Storz 75 (B)	2"	89	Aluminium Alloy
3/B-250 AL	Storz 75 B = DIN 14308	2 1/2"	89	Aluminium Alloy
3/B-300 AL	Storz 75 (B)	3"	89	Aluminium Alloy
3/90-300 AL	Storz 90	3"	105	Aluminium Alloy
3/100-400 AL	Storz 100 - DS*	4"	115	Aluminium Alloy
3/A-400 AL	Storz 110 (A)	4"	133	Aluminium Alloy
3/A-450 AL	Storz 110 A = DIN 14309	4 1/2"	133	Aluminium Alloy
3/125-500 AL	Storz 125	5"	148	Aluminium Alloy
3/150-600 AL	Storz 150 = F (3 Claws) Forged	6"	160	Aluminium Alloy
3/165-600 AL	Storz 165	6"	188	Aluminium Alloy
3/165-700 AL	Storz 165	7"	188	Aluminium Alloy
3/205-800 AL	Storz 205	8"	220	Aluminium Alloy
96	Storz Spanner	-	-	-

*DS - Suitable for both pressure and suction couplings



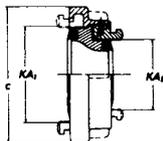
BSSP MALE THREADED ADAPTERS

PART NO.	NOMINAL SIZE DIN ISO 228	PIPE THREAD	KA (mm)	MATERIAL
4/D-100 AL	Storz 25 (D) - DS*	1"	31	Aluminium Alloy
4/D-32-100 AL	Storz 32 DS*	1"	44	Aluminium Alloy
4/32-125 AL	Storz 32 DS*	1 1/4"	44	Aluminium Alloy
4/38-150 AL	Storz 38 - DS*	1 1/2"	52	Aluminium Alloy
4/C-125 AL	Storz 52 (C)	1 1/4"	66	Aluminium Alloy
4/C-200 AL	Storz 52 (C)	2"	66	Aluminium Alloy
4/B-250 AL	Storz 75(B)	2 1/2"	89	Aluminium Alloy
4/B-300 AL	Storz 75(B)	3"	89	Aluminium Alloy
4/A-400 AL	Storz 110(A)	4"	133	Aluminium Alloy

*DS - Suitable for both pressure and suction couplings

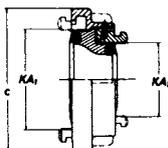


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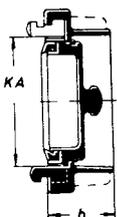
REDUCERS STORZ - STORZ (SWIVEL)

PART NO.	NOMINAL SIZE	KA x KA (mm)	MATERIAL
7/C-D AL	C - D = DIN 14341	66/31	Aluminium Alloy
7/B-C AL	B - C = DIN 14342	89/66	Aluminium Alloy
7/A-B AL	A - A = DIN 14343	133/89	Aluminium Alloy



REDUCERS STORZ - STORZ (RIGID)

PART NO.	NOMINAL SIZE	KA x KA (mm)	MATERIAL
7/C-38 AL	Storz C-38	66/52	Aluminium Alloy
7/C-32 AL	Storz C-32	66/44	Aluminium Alloy
7/65-C AL	Storz 65-C	81/66	Aluminium Alloy
7/B-65 AL	Storz B-65	89/81	Aluminium Alloy
7/90-B AL	Storz 90-B	105/89	Aluminium Alloy
7/100-B AL	Storz 100-B	115/89	Aluminium Alloy
7/A-100 AL	Storz A-100	133/115	Aluminium Alloy
7/125-A AL	Storz 125-A	148/133	Aluminium Alloy
7/150-A	Storz 150-A	160/133	Aluminium Alloy



BLANK CAPS WITH CHAIN

PART NO.	NOMINAL SIZE	KA (mm)	MATERIAL I.D. of coupling
8/D AL	Storz 25 D - DS* = DIN 14310	31	Aluminium Alloy
8/32 AL	Storz 32 DS*	44	Aluminium Alloy
8/38 AL	Storz 38 DS*	52	Aluminium Alloy
8/C AL	Storz 52 C = DIN 14311	66	Aluminium Alloy
8/65 AL	Storz 65	81	Aluminium Alloy
8/B AL	Storz 75 B = DIN 14312	89	Aluminium Alloy
8/90 AL	Storz 90	105	Aluminium Alloy
8/100 AL	Storz 100 - DS*	115	Aluminium Alloy
8/A AL	Storz 110 A = DIN 14313	133	Aluminium Alloy
8/125 AL	Storz 125	148	Aluminium Alloy
8/150 AL	Storz 150 = F (3 Claws) forged	160	Aluminium Alloy
8/165 AL	Storz 165	188	Aluminium Alloy
8/205 AL	Storz 205	220	Aluminium Alloy
96	Storz Spanner	-	-

*DS - Suitable for both pressure and suction couplings

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Tanker, Overfill Prevention & Storage Tank Products



DELIVERY-SUCTION SEALS

PART NO.	NOMINAL SIZE
69/D PB	Storz 25 D* = DIN 14301
69/32 PB	Storz 32 - DS*
69/38 PB	Storz 38 - DS*
69/CPB	Storz 52 C = DIN 14311
69/65 PB	Storz 65
69/BPB	Storz 75 B = DIN 14312
69/90 PB	Storz 90
69/100 PB	Storz 100 - DS*
69/A PB	Storz 110 A = DIN 14313
69/125 PB	Storz 125

*DS - Suitable for both pressure & suction couplings.
Food quality material available on request.

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Tanker, Overfill Prevention & Storage Tank Products

Tank Wagon Couplings BS EN 14420-6:2004

STAINLESS STEEL TANKWAGON COUPLINGS			
PART NO.	SIZE	MATERIAL	
	MK50SS	DN50	Stainless Steel
	MK80SS	DN80	Stainless Steel
	MK100SS	DN100	Stainless Steel
	VK50SS	DN50	Stainless Steel
	VK80SS	DN80	Stainless Steel
	VK100SS	DN100	Stainless Steel
	VB50SS	DN50	Stainless Steel
	VB80SS	DN80	Stainless Steel
	MB50SS	DN50	Stainless Steel
	MB80SS	DN80	Stainless Steel

FORGED BRASS TANKWAGON COUPLINGS			
PART NO.	SIZE	MATERIAL	
	MK50BR	DN50	Forged Brass
	MK80BR	DN80	Forged Brass
	MK100BR	DN100	Forged Brass
	VK50BR	DN50	Forged Brass
	VK80BR	DN80	Forged Brass
	VK100BR	DN100	Forged Brass

Tanker, Overfill Prevention & Storage Tank Products

Tank Wagon Spares & Seals BS EN 14420-6:2004

STAINLESS STEEL TANKWAGON SPARE PARTS



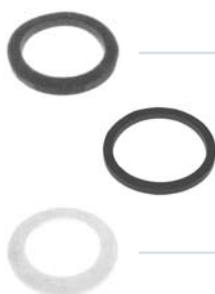
PART NO.	SIZE	DESCRIPTION
MKLR 50SS	DN50	Locking Ring
MKLR 80SS	DN80	Locking Ring
MKLR 100SS	DN100	Locking Ring
MKSR 50SS	DN50	Sealing Ring Section
MKSR 80SS	DN80	Sealing Ring Section
MKSR 100SS	DN100	Sealing Ring Section

FORGED BRASS TANKWAGON SPARE PARTS



PART NO.	SIZE	DESCRIPTION
MKLR50BR	DN50	Locking Ring
MKLR80BR	DN80	Locking Ring
MKLR100BR	DN100	Locking Ring
MKSR50BR	DN50	Sealing Ring Section
MKSR80BR	DN80	Sealing Ring Section
MKSR100BR	DN100	Sealing Ring Section

SEALS AND GASKETS FOR TANKWAGON COUPLINGS



PART NO.	SIZE	DESCRIPTION
MBG50	DN50	Female Blanking Gasket
MBG80	DN80	Female Blanking Gasket
MBG100	DN100	Female Blanking Gasket
TWHS50	DN50	Hypalon Seal
TWHS80	DN80	Hypalon Seal
TWHS100	DN100	Hypalon Seal
TS 50T	DN50	PTFE Thread Seal
TS 80T	DN80	PTFE Thread Seal
TS 100T	DN100	PTFE Thread Seal

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Tanker, Overfill Prevention & Storage Tank Products

Low Pressure Tank Equipment

Our range of low pressure tank equipment is designed to meet the stringent requirements specified for the safe storage of volatile liquids and gasses.

All our products are designed to offer both practical and cost effective solutions in such diverse industries as Petrochemical, Tank storage, Pharmaceutical, Chemical and Oil & Gas. All industries where safety is paramount.

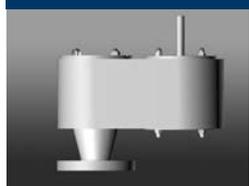
Products

B100 - COMBINED PRESSURE AND VACUUM RELIEF VALVES



The B100 Series ensures that tanks and vessels are kept safe during periods of excessive pressure and vacuum caused by filling and emptying of product and changes in temperature due to climatic or external fire sources. Available as vent to atmosphere and piped away version.

B200 - VACUUM RELIEF VALVES



The B200 Series ensures that tanks and vessels are kept safe during periods of excessive vacuum caused by emptying of product and changes in temperature due to climatic changes. Conventional and side mounting options available.

B300 - PRESSURE RELIEF VALVES



The B300 Series ensures that tanks and vessels are kept safe during periods of excessive pressure caused by filling of product and changes in temperature due to climatic or external fire sources. Available as vent to atmosphere and piped away units with the piped away unit also capable of operating as a vacuum relief valve.

B400 - EMERGENCY RELIEF VALVES



The B400 Series ensures that tanks and vessels are kept safe during periods of excessive pressure due to external fire sources and also allows access to the tank for inspection / cleaning purposes.

B500 - GAUGE HATCHES



The B500 Series are designed to provide access to tanks or vessels for sampling, measurement and inspection. Options include self closing, clamp down and lockable.

FOR INFORMATION ON ANY OF THESE PRODUCTS PLEASE DO NOT HESITATE TO CONTACT OUR SALES DEPARTMENT

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